

AIRWAY MANAGEMENT

ANAESTHESIA BREATHING SYSTEMS

ANAESTHESIA COMPONENTS

CRITICAL CARE

NEONATAL BREATHING SYSTEMS

BREATHING FILTERS

OXYGEN & AEROSOL THERAPY

RESUSCITATION

SUCTION

UROLOGY & CONTINENCE CARE

OSTOMY CARE

ENEMA TIPS

Flexicare distributes to over 80 countries worldwide through a network of distributors and its own subsidiaries.

“Working Global,  
Acting Local”



#### Headquarters

Flexicare Medical Limited  
Cynon Valley Business Park,  
Mountain Ash, Mid Glamorgan.  
CF45 4ER  
United Kingdom  
☎ +44 (0)1443 474647  
☎ +44 (0)1443 474222  
✉ enquiries@flexicare.com

#### Flexicare Middle East

Flexicare Middle East Amman  
Um Uthina Shatt Al Arab Street  
Nakho Business Center  
2nd Floor - Office No.5  
☎ +962 6554 8944  
☎ +962 6554 8945  
✉ enquiries@flexicare.com

#### Flexicare India

Flexicare Medical India Pvt.Ltd  
North Phase,  
Developed Plot No. 10A,  
T.V.K. Industrial Estate,  
Ekkattuthangal,  
Chennai-600 097  
☎ +91 44 4554 0220  
✉ enquiries@flexicare.com

#### Flexicare China

Flexicare Medical Dongguan Limited  
No. B-15, Xicheng Industrial Zone  
I, Hengli Town, Dongguan City,  
Guangdong Province  
China 523460  
✉ enquiries@flexicareasia.com

#### Flexicare USA

Flexicare Inc  
15281 Barranca, Unit D  
Irvine, CA 92618  
☎ 1-800-985-3314 (Toll Free)  
☎ 949-450-9999  
☎ 949-450-9992  
✉ inquiries@flexicare.com

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[www.flexicare.com](http://www.flexicare.com)

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With over 35 years of experience in design, development and manufacturing of medical devices, Flexicare has developed a world class reputation.



“Our commitment is to deliver on our promises”

**International Distributors** Flexicare now distributes to over 80 countries worldwide through a network of distributors and its own subsidiaries. Flexicare has offices across Europe, the Middle East, India, Far East and the USA which are able to respond to customers' needs, providing a fast and efficient service.

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Dedicated to  
**supporting hospitals**  
providing comprehensive training

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Providing you with  
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within the hospital environment



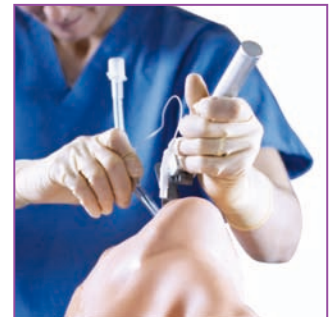
# AIRWAY MANAGEMENT

## Laryngeal Mask Airways, Laryngoscopes, Endotracheal Tubes & Airways

A comprehensive range of airway management devices including Laryngeal Mask Airways, Laryngoscopes, Endotracheal Tubes, Nasopharyngeal Airways and Guedel Airways.

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## LarySeal - Laryngeal Mask Airways

The LarySeal range of Laryngeal Mask Airways have the following common benefits, which are incorporated into the Clear, Blue, Multiple, MRI and Flexi.

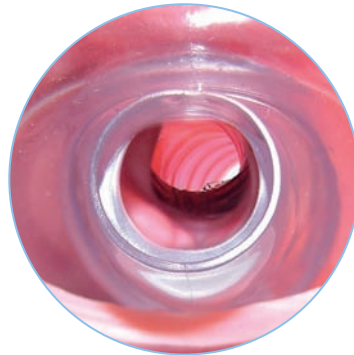
# LarySeal™

Reduced risk of blockage



The deep design of the patient port reduces the risk of blockages by soft tissues. The open patient port allows for unrestricted use of an endoscope.

Full glottis view



The supraglottic airway device allows for a clear view of the glottis with the use of an endoscope.

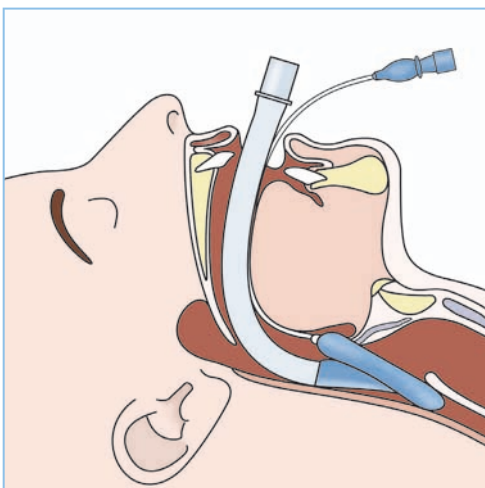
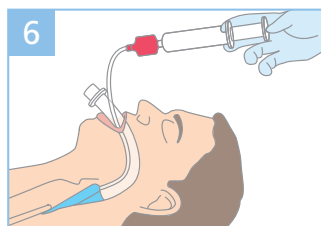
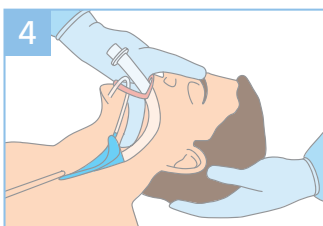
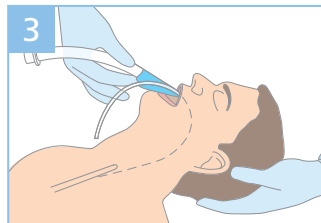
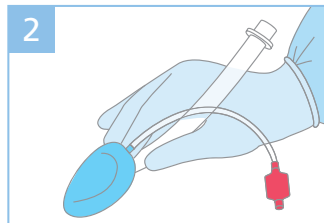
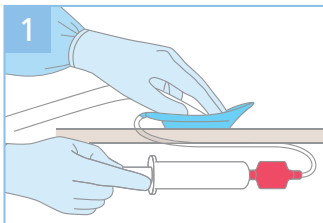
Printed info on the main tube



Guidance for appropriate air volume and size is printed on the main tube, allowing for quick and easy reference.

### Clearly labelled packaging

Instructions for use are clearly shown on the packaging in both text and diagrammatic form.

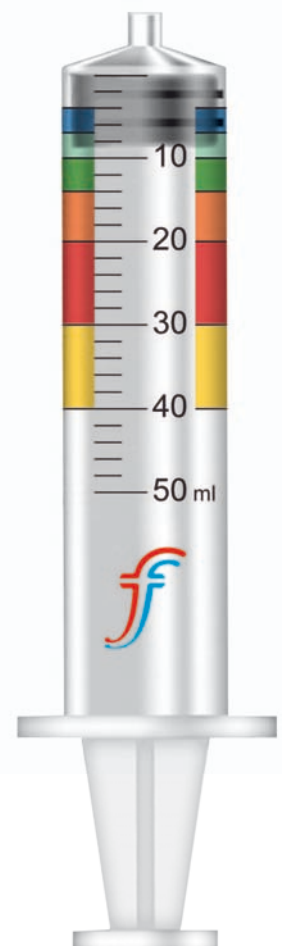


### LarySeal in position

The diagram shows LarySeal in position and demonstrates how the soft material of the cuff forms itself to the oropharyngeal area.

### Colour coded LarySeal Cuff Inflator

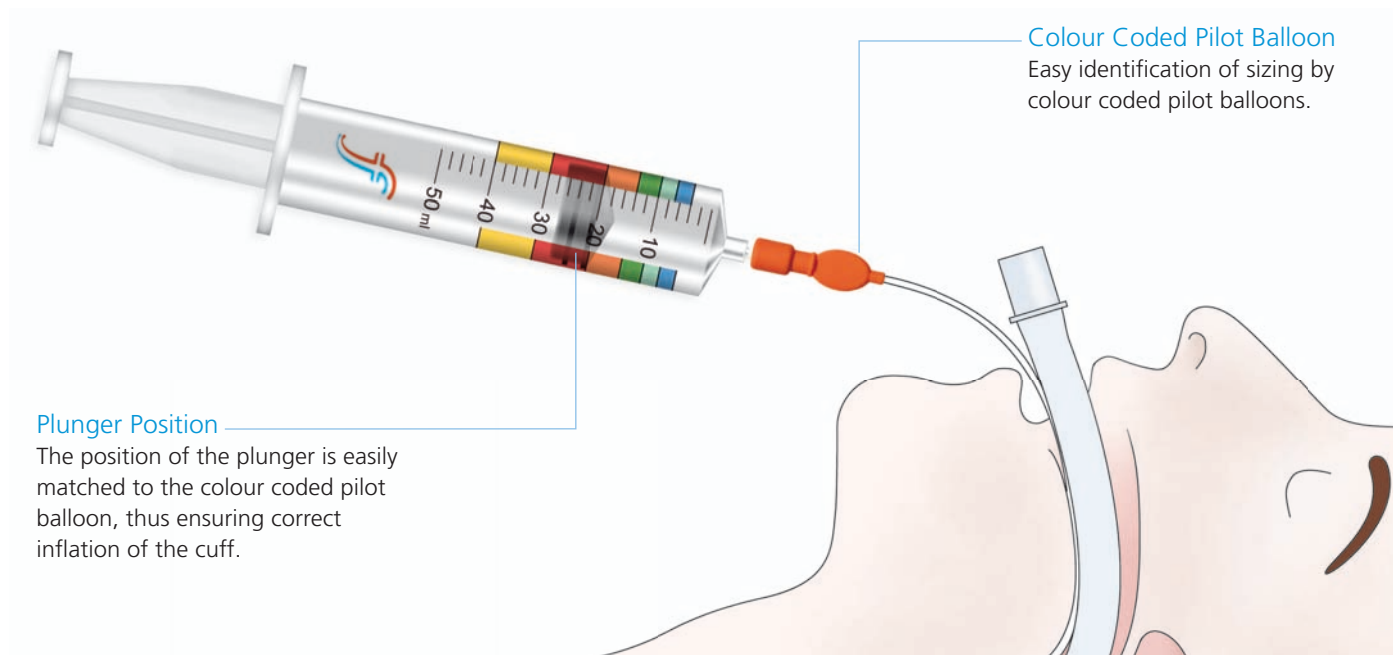
The LarySeal Cuff Inflator has clearly marked increments, each one specifically colour coded to match the size colour coding of the LarySeal pilot balloon. Thus enabling easier and quicker identification of the correct measure for inflating the cuff of the LarySeal.



## LarySeal - Colour Coding

The LarySeal range has a colour coded pilot balloon which corresponds to the size of the laryngeal Mask Airway, providing a clear visual indication of the size, therefore facilitating quicker selection.

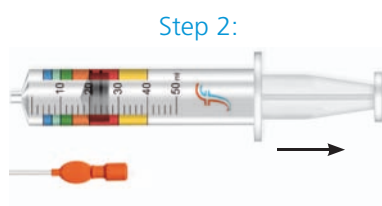
# LarySeal™



The LarySeal Cuff Inflator has been specifically designed to only be used with the LarySeal range of Laryngeal Mask Airways, indicating the maximum amount of air by individual colour coded sizes.



Identify the colour coded section that matches the colour of the LarySeal pilot balloon.



Extract the plunger to the bottom mark of the appropriate colour coded increment. Ensure the LarySeal cuff is deflated.



Connect the inflator to the LarySeal pilot balloon and depress the plunger to inflate the cuff to the correct pressure.

038-94-001

LarySeal Colour Coded Cuff Inflator

10

### THE LARYSEAL PILOT BALLOON COLOUR CODING SYSTEM

	White Pilot Balloon - ①	<4ml/60cm H <sub>2</sub> O	Size 1, <5kg
	Blue Pilot Balloon - ①5	<7ml/60cm H <sub>2</sub> O	Size 1.5, 5kg - 10kg
	Light Green Pilot Balloon - ②	<10ml/60cm H <sub>2</sub> O	Size 2, 10kg - 20kg
	Green Pilot Balloon - ②5	<14ml/60cm H <sub>2</sub> O	Size 2.5, 20kg - 30kg
	Orange Pilot Balloon - ③	<20ml/60cm H <sub>2</sub> O	Size 3, 30kg - 50kg
	Red Pilot Balloon - ④	<30ml/60cm H <sub>2</sub> O	Size 4, 50kg - 70kg
	Yellow Pilot Balloon - ⑤	<40ml/60cm H <sub>2</sub> O	Size 5, 70kg - 100kg



## LarySeal Multiple

Our silicone reusable laryngeal mask airways are designed to be sterilized and used up to a recommended 40 times. The LarySeal Multiple cuff adapts to the contour of the oropharyngeal area to provide a secure seal.

# LarySeal™ Multiple

- Medical Grade Silicone
- Autoclavable

### Crush Resistant

The thickness of the main tube wall reduces the risk of crushing.

### Universal Connection

15mm Male connector provides a universal connection.

### Autoclavable, Reusable

Durable high temperature resistant material. Recommended for up to 40 times autoclaving.

### Secure Seal for Airway Management

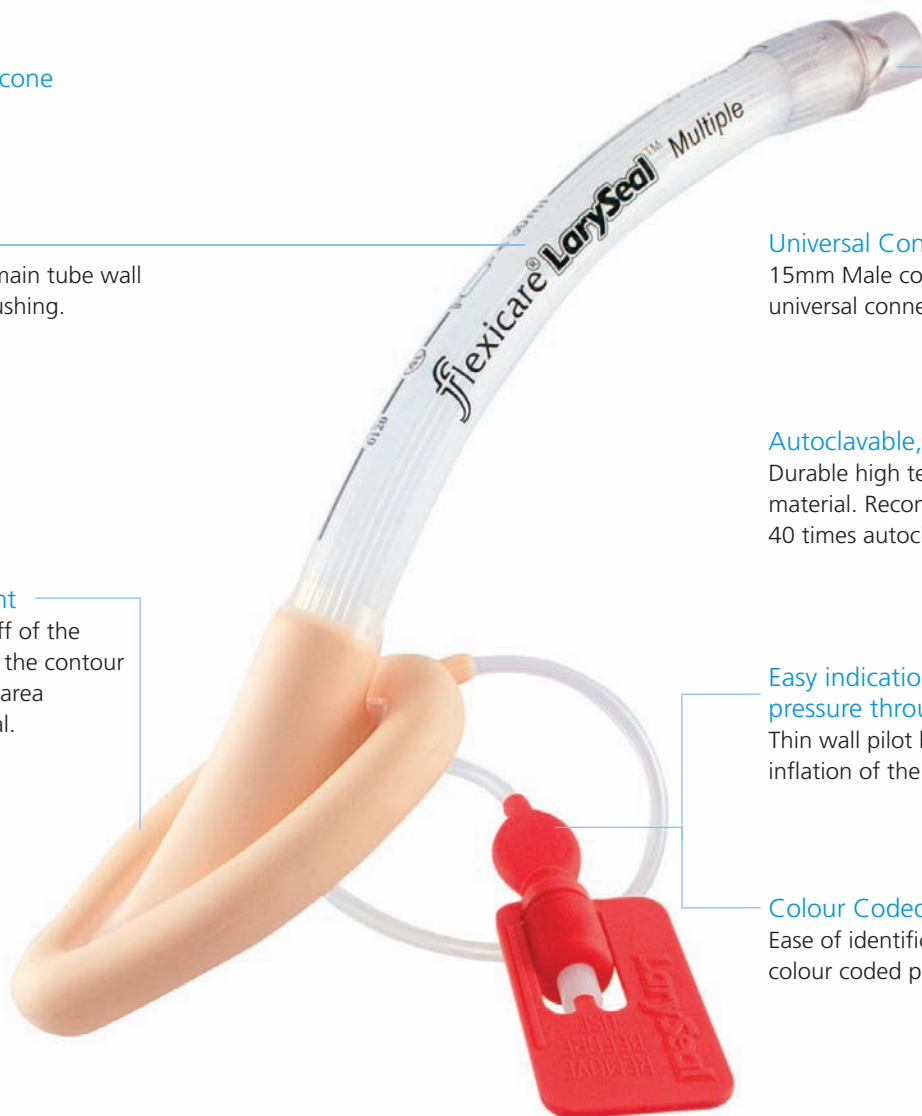
Silicone allows the cuff of the mask to form itself to the contour of the oropharyngeal area providing a secure seal.

### Easy indication of the cuff pressure through pilot balloon

Thin wall pilot balloon indicates the inflation of the cuff.

### Colour Coded Pilot Balloon

Ease of identification of sizing by colour coded pilot balloons.



038-94-110	LarySeal Multiple Size 1	①	<5kg	10
038-94-115	LarySeal Multiple Size 1.5	15	5kg - 10kg	10
038-94-120	LarySeal Multiple Size 2	2	10kg - 20kg	10
038-94-125	LarySeal Multiple Size 2.5	25	20kg - 30kg	10
038-94-130	LarySeal Multiple Size 3	3	30kg - 50kg	10
038-94-140	LarySeal Multiple Size 4	4	50kg - 70kg	10
038-94-150	LarySeal Multiple Size 5	5	70kg - 100kg	10

## LarySeal Blue

The first silicone single patient use laryngeal mask airway introduced to provide the benefits of the well accepted reusable LarySeal with the benefits of single use, protecting against cross contamination.

# LarySeal™ Blue

- Medical Grade Silicone
- Single Use
- Cost Effective

### Crush Resistant

The thickness of the main tube wall reduces the risk of crushing.

### Universal Connection

15mm Male connector provides a universal connection.

### Reduce the risk of cross contamination

Sterile product in secure packaging.

### Less risk of slipping or dislocation

The silicone matt surface of the LarySeal Blue cuff provides good adhesion to the oropharyngeal area and reduces the risk of movement or dislocation of the cuff.

### Easy indication of the cuff pressure through pilot balloon

Thin wall pilot balloon indicates the inflation of the cuff.

### Colour Coded Pilot Balloon

Ease of identification of sizing by colour coded pilot balloons.



038-94-210	LarySeal Blue Size 1	①	<5kg	10
038-94-215	LarySeal Blue Size 1.5	⑮	5kg - 10kg	10
038-94-220	LarySeal Blue Size 2	②	10kg - 20kg	10
038-94-225	LarySeal Blue Size 2.5	②⑤	20kg - 30kg	10
038-94-230	LarySeal Blue Size 3	③	30kg - 50kg	10
038-94-240	LarySeal Blue Size 4	④	50kg - 70kg	10
038-94-250	LarySeal Blue Size 5	⑤	70kg - 100kg	10

## LarySeal Clear

LarySeal Clear is a single patient use PVC laryngeal mask airway, engineered using extra soft matt textured materials to replicate as closely as possible that of silicone, providing Anaesthetists the same feel as LarySeal Blue and LarySeal Multiple.

# LarySeal™ Clear

- Medical Grade PVC
- Single Use
- Cost Effective

### Crush Resistant

The thickness of the main tube wall reduces the risk of crushing.

### Universal Connection

15mm Male connector provides a universal connection.

### Cost Effective

Eliminates the need for cleaning and re-sterilizing, saving time and cost.

### Less risk of slipping or dislocation

The satin surface finish of the LarySeal Clear cuff provides a similar texture to silicone, whilst ensuring ease of insertion.

### Easy indication of the cuff pressure through pilot balloon

Thin wall pilot balloon indicates the inflation of the cuff.

### Colour Coded Pilot Balloon

Ease of identification of sizing by colour coded pilot balloons.



038-94-310	LarySeal Clear Size 1	①	<5kg	10
038-94-315	LarySeal Clear Size 1.5	⑮	5kg - 10kg	10
038-94-320	LarySeal Clear Size 2	②	10kg - 20kg	10
038-94-325	LarySeal Clear Size 2.5	②⑤	20kg - 30kg	10
038-94-330	LarySeal Clear Size 3	③	30kg - 50kg	10
038-94-340	LarySeal Clear Size 4	④	50kg - 70kg	10
038-94-350	LarySeal Clear Size 5	⑤	70kg - 100kg	10



## LarySeal MRI

LarySeal MRI provides the same benefits of LarySeal Clear with the added benefit of a complete metal free inflation valve, allowing LarySeal MRI to be used within any MRI suite safely without distorting the images.

# LarySeal™ MRI

- Medical Grade PVC
- Single Use
- Cost Effective
- MRI Compatible

### Crush Resistant

The thickness of the main tube wall reduces the risk of crushing.

### Universal Connection

15mm Male connector provides a universal connection.

### Cost Effective

Eliminates cleaning and re-sterilizing, saving time and cost.

### Less risk of slipping or dislocation

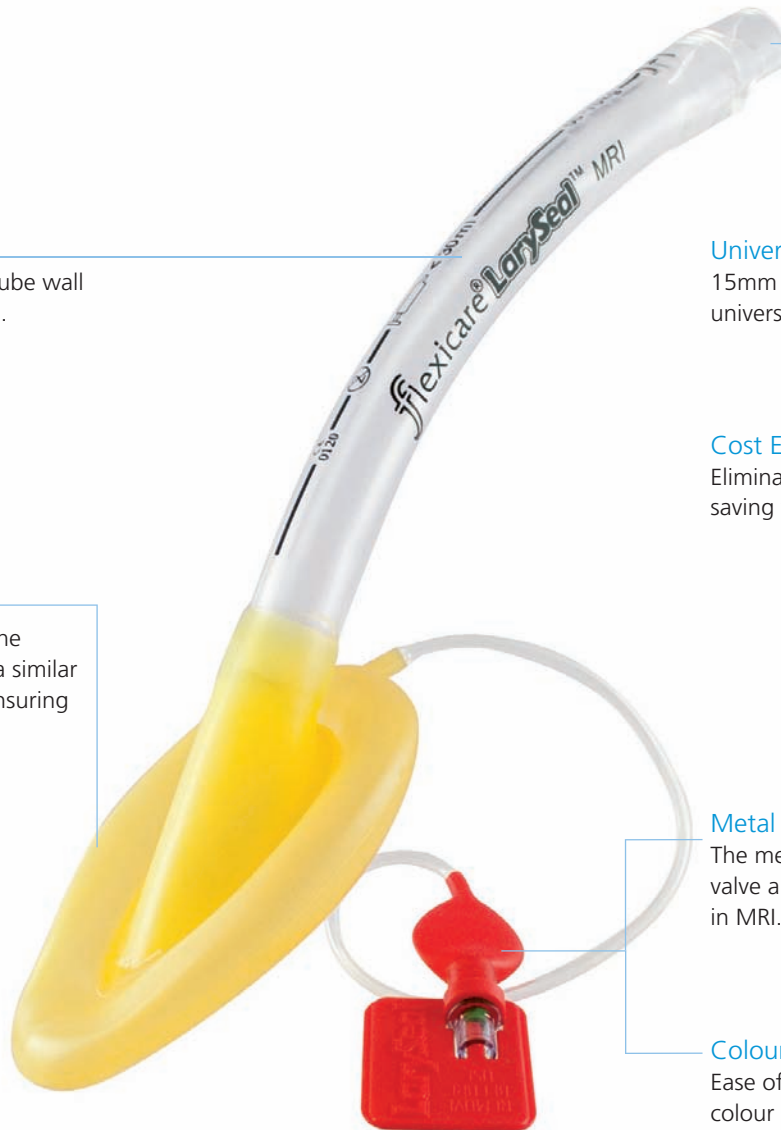
The satin surface finish of the LarySeal MRI cuff provides a similar texture to silicone, whilst ensuring ease of insertion.

### Metal Free Inflation Valve

The metal free construction of the valve allows the LarySeal to be used in MRI.

### Colour Coded Pilot Balloon

Ease of identification of sizing by colour coded pilot balloons.



038-94-410	LarySeal MRI Size 1	①	<5kg	10
038-94-415	LarySeal MRI Size 1.5	⑮	5kg - 10kg	10
038-94-420	LarySeal MRI Size 2	②	10kg - 20kg	10
038-94-425	LarySeal MRI Size 2.5	②⑤	20kg - 30kg	10
038-94-430	LarySeal MRI Size 3	③	30kg - 50kg	10
038-94-440	LarySeal MRI Size 4	④	50kg - 70kg	10
038-94-450	LarySeal MRI Size 5	⑤	70kg - 100kg	10

## LarySeal Flexi

LarySeal Flexi is specially designed for use in ophthalmic, ENT, dental and other head and neck surgeries. The construction of the main tube allows it to be positioned well away from the surgical field, improving surgical access without compromising the seal. The LarySeal Flexi main tube is reinforced to avoid kinking and eliminate the risk of airway tube occlusion.

# LarySeal<sup>TM</sup> Flexi

- Medical Grade PVC
- Single Use
- Cost Effective
- Flexible Main Tube

### Reinforced

The main tube is reinforced with kink-free wire to eliminate the risk of airway tube occlusion.

### Flexible Main Tube

The flexible main tube allows it to be positioned away from the surgical field, improving surgical access.

### Universal Connection

15mm Male connector provides a universal connection.

### Less risk of slipping or dislocation

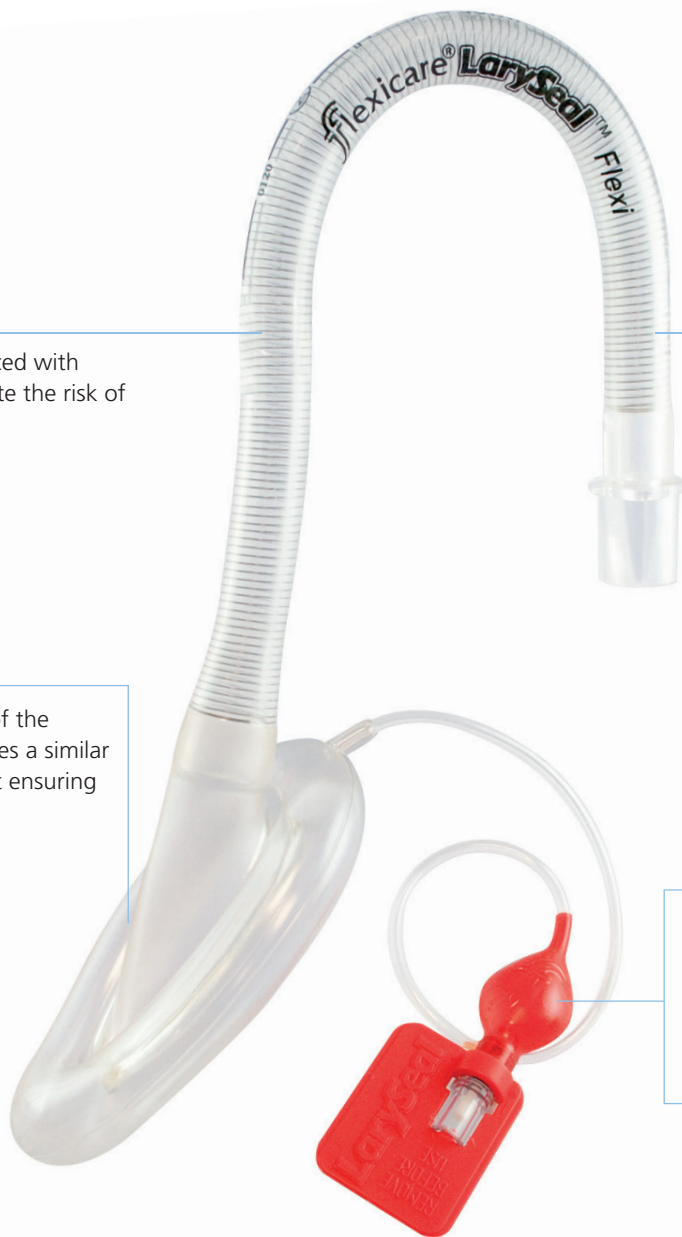
The satin surface finish of the LarySeal Flexi cuff provides a similar texture to silicone, whilst ensuring ease of insertion.

### Easy indication of the cuff pressure through pilot balloon

Thin wall pilot balloon indicates the inflation of the cuff.

### Colour Coded Pilot Balloon

Ease of identification of sizing by colour coded pilot balloons.



038-94-520	LarySeal Flexi Size 2	2	10kg - 20kg	10
038-94-525	LarySeal Flexi Size 2.5	25	20kg - 30kg	10
038-94-530	LarySeal Flexi Size 3	3	30kg - 50kg	10
038-94-540	LarySeal Flexi Size 4	4	50kg - 70kg	10
038-94-550	LarySeal Flexi Size 5	5	70kg - 100kg	10

## LarySeal Plus

LarySeal Plus offers the convenience of combining a single patient use laryngeal mask airway, lubricating jelly and the LarySeal cuff inflator in one single pack for quick and effortless insertion.

# LarySeal™ Plus

### Wide Choice

The all inclusive insertion pack is available with either LarySeal Blue or LarySeal Clear providing greater flexibility of clinical preference.

### LarySeal Inflator

The colour coded cuff inflator corresponds with the colour coded pilot balloon which allows for quick identification of the maximum recommended fill volume.

### Easy Open Lubricator

Each LarySeal Plus pack contains a single ease open packet of a water based lubricant to provide a generous coating to facilitate insertion.

### Colour Coded Pilot Balloon

Provides a visual confirmation of the size of the LarySeal as well as corresponding to the cuff Inflator.



### LarySeal Blue Plus silicone single patient use airway

038-94-210P	LarySeal Blue Plus, lubricant & inflator - Size 1	<5kg	①	10
038-94-215P	LarySeal Blue Plus, lubricant & inflator - Size 1.5	5kg - 10kg	①.5	10
038-94-220P	LarySeal Blue Plus, lubricant & inflator - Size 2	10kg - 20kg	②	10
038-94-225P	LarySeal Blue Plus, lubricant & inflator - Size 2.5	20kg - 30kg	②.5	10
038-94-230P	LarySeal Blue Plus, lubricant & inflator - Size 3	30kg - 50kg	③	10
038-94-240P	LarySeal Blue Plus, lubricant & inflator - Size 4	50kg - 70kg	④	10
038-94-250P	LarySeal Blue Plus, lubricant & inflator - Size 5	70kg - 100kg	⑤	10

### LarySeal Clear Plus PVC single patient use airway

038-94-310P	LarySeal Clear Plus, lubricant & inflator - Size 1	<5kg	①	10
038-94-315P	LarySeal Clear Plus, lubricant & inflator - Size 1.5	5kg - 10kg	①.5	10
038-94-320P	LarySeal Clear Plus, lubricant & inflator - Size 2	10kg - 20kg	②	10
038-94-325P	LarySeal Clear Plus, lubricant & inflator - Size 2.5	20kg - 30kg	②.5	10
038-94-330P	LarySeal Clear Plus, lubricant & inflator - Size 3	30kg - 50kg	③	10
038-94-340P	LarySeal Clear Plus, lubricant & inflator - Size 4	50kg - 70kg	④	10
038-94-350P	LarySeal Clear Plus, lubricant & inflator - Size 5	70kg - 100kg	⑤	10



## Laryngoscopes - Introduction

First introduced by Sir Robert Macintosh and Sir Ivan Magill in the early 1940's, the Laryngoscope has evolved since its inception. It followed the creation of the Endotracheal tube, Laryngoscopes permit access to push the tongue back and provide light to allow visualisation of the vocal chords for accurate placement of the airway.

### The Classification of Laryngoscopes

Laryngoscopes can be primarily classified into two categories, defined by their light source.

#### 1. Standard Laryngoscopes

The Standard Laryngoscope, also referred to as a Conventional Laryngoscope, has a light bulb incorporated into the blade, approximately 1/3 of the distance from the tip. The light bulb screws into position and is powered via an integral line that transfers the power from the source. The power source is located within the handle in the form of conventional batteries.

#### 2. Fibre Optic Laryngoscopes

The major difference between the Standard Laryngoscope and the Fibre Optic Laryngoscope is the location of the bulb. In the Fibre Optic System, the bulb is housed within the handle with the light transmitted via an optic bundle.

The main advantage that this system presents is that it transmits light without transferring heat and thus eliminates the risk of burns within the patients oral cavity. There is also the added advantage of one-piece autoclaving.



### Disposable Blades

Due to the recent issues involving CJD (prions) where decontamination of the blades could not be ensured, there remains a risk of cross infection. As a measure to combat the potential risk of cross contamination there has been a move towards Disposable Blades. Recent studies have also shown that laryngoscope handles are a major source of cross contamination, with few being sterilised as often as needed.<sup>1</sup>

The BriteBlade and BriteBlade Pro are disposable fibre optic blades designed for single patient use which eliminates the risk of cross contamination. They have a unique hinge design that prevents the folded blade from touching the handle. It has been demonstrated that single patient use Blades are cost effective when in comparison to re-usable blades.

### Difficult Intubation

Flexicare also provide Laryngoscopes for difficult intubations. The Flexible blade system clears the tongue further than is possible with the conventional designed laryngoscopes to allow positive identification of the airway.

<sup>1</sup> D. Williams, J. Dingley, C. Jones, N. Berry

'Contamination of laryngoscope handles' Journal of hospital infection (2010) 74, 123-128

## Fibre Optic Reusable Blades

Flexicare has a full range of reusable fibre optic laryngoscope blades and handles conforming to EN ISO 7376. Using the highest grades of fibre optics provides maximum cold light transfer allowing clinicians to gain an optimum view of the larynx. All reusable fibre optic blades and handles are fully autoclavable and are supported by a lifetime guarantee.<sup>1</sup>

### Fibre Optic Macintosh Blades

The curved design of the Macintosh Blade allows the tip to be guided to the epiglottic vallecula for direct visualization of the glottis whilst maintaining the tongue to the side for intubation.



040-831	Fibre Optic Macintosh Blade Number 1	1
040-832	Fibre Optic Macintosh Blade Number 2	1
040-833	Fibre Optic Macintosh Blade Number 3	1
040-834	Fibre Optic Macintosh Blade Number 4	1

### Fibre Optic Flexible Blades



040-835	Flexible Fibre Optic Blade Number 3	1
040-836	Flexible Fibre Optic Blade Number 4	1

### Fibre Optic Miller Blades

The straight design with a shallow curve of the Miller Blade tip provides greater control in patients whose epiglottis is larger, as in paediatrics. The infant and neonatal miller blades are also available with a delivery port to provide supplementary oxygen during laryngoscopy.



040-840	Fibre Optic Oxy Miller Number 00	1
040-849	Fibre Optic Miller Number 00	1
040-841	Fibre Optic Oxy Miller Number 0	1
040-850	Fibre Optic Miller Number 0	1
040-851	Fibre Optic Miller Number 1	1
040-852	Fibre Optic Miller Number 2	1
040-853	Fibre Optic Miller Number 3	1
040-854	Fibre Optic Miller Number 4	1

<sup>1</sup> For details of the lifetime guarantee please visit our website

# IntegraBlade Fibre Optic Laryngoscope Blades

The integrated fibre optic within the body of the IntegraBlade makes the structure seamless, therefore reducing the risks of contamination or foreign bodies becoming trapped.

## IntegraBlade™

### Increased Brightness

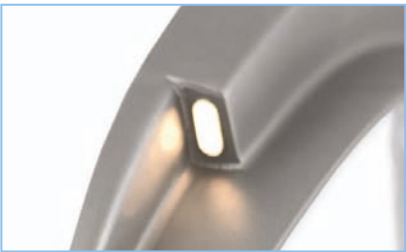
The Flexicare IntegraBlade range are designed with an integrated wide profile fibre optic bundle to provide maximum light transfer.

### Rounded Tip

The blade features an atraumatic curved tip which reduces the risk of tissue damage.

### Fully Autoclavable

The 100% stainless steel construction of the blade provides long life of the blade even during extensive autoclaving.



040-911	Integra Fibre Optic Macintosh Blade - No 1	1
040-912	Integra Fibre Optic Macintosh Blade - No 2	1
040-913	Integra Fibre Optic Macintosh Blade - No 3	1
040-914	Integra Fibre Optic Macintosh Blade - No 4	1



## Speciality Blades

Flexicare has a range of fibre optic reusable speciality blades designed to provide clinicians with complete freedom of choice for specific patient intubation requirements.

### Robert Shaw Fibre Optic Blades

Designed for neonatal and Infant use, Robert Shaw blades feature a gentle shallow curvature of the blade to lift the epiglottis indirectly in a similar way to the Macintosh Blades.



040-930	Robert Shaw Fibre Optic Blade No 0	1
040-931	Robert Shaw Fibre Optic Blade No 1	1

### Seward Fibre Optic Blades

Designed originally as an infant blade for asphyxia neonatorum, the Seward Blade is also available for paediatrics.



040-951	Seward Fibre Optic Blade No 1	1
040-952	Seward Fibre Optic Blade No 2	1

### Wisconsin Fibre Optic Blades

Designed for neonatal and infant use, the Wisconsin Blade provides an improved view than a standard Miller Blade, providing greater control of the epiglottis with a subtly wider distal end.



040-920	Wisconsin Fibre Optic Blade No 0	1
040-921	Wisconsin Fibre Optic Blade No 1	1
040-922	Wisconsin Fibre Optic Blade No 2	1
040-923	Wisconsin Fibre Optic Blade No 3	1
040-924	Wisconsin Fibre Optic Blade No 4	1

## Single Patient Use Metal Fibre Optic Laryngoscopes

The BriteBlade Pro is a 100% Metal Disposable Fibre Optic Blade designed for single patient use which eliminates risk of cross contamination from both blade and handle. It has a unique hinge design that prevents the folded blade from touching the handle.

### BriteBlade Pro™



#### Enhanced Vision

Bright, focused high intensity illumination

#### Reduced Risk of Damaging Patient Teeth

Low profile design on both Mac & Miller laryngoscope blades.

#### Eliminate Risk of Cross-Contamination

Blade stop design in folded position prevents the blade from touching the handle.<sup>1</sup>

#### Fits all Green Specification Handles

#### Confidence & Control

100% metal construction matches the proven re-usable blade characteristics.

#### Eliminate Risk of Cross-Infection

Single-use individually packed pre-sterilized blade.

#### Wide Choice at a Low Cost

Full range of Mac & Miller Blades with a lower overall cost than re-usable purchase, maintenance, cleaning and sterilization costs.

BriteBlade Pro shares the same great features and benefits as the BriteBlade but in a metal blade form, providing the same feel as a re-usable blade and the user with greater confidence.



040-711	BriteBlade Pro Fibre Optic Macintosh Blade - Size 1	10
040-712	BriteBlade Pro Fibre Optic Macintosh Blade - Size 2	10
040-713	BriteBlade Pro Fibre Optic Macintosh Blade - Size 3	10
040-714	BriteBlade Pro Fibre Optic Macintosh Blade - Size 4	10
040-720N	BriteBlade Pro Fibre Optic Miller Blade - Size 00	10
040-720	BriteBlade Pro Fibre Optic Miller Blade - Size 0	10
040-721	BriteBlade Pro Fibre Optic Miller Blade - Size 1	10
040-722	BriteBlade Pro Fibre Optic Miller Blade - Size 2	10
040-723	BriteBlade Pro Fibre Optic Miller Blade - Size 3	10
040-724	BriteBlade Pro Fibre Optic Miller Blade - Size 4	10
040-730	BriteBlade Pro Fibre Optic Oxy Miller Blade - Size 0	10
040-731	BriteBlade Pro Fibre Optic Oxy Miller Blade - Size 00	10
040-733	BriteBlade Pro Fibre Optic Macintosh Blade Flexible -Size 3	10
040-734	BriteBlade Pro Fibre Optic Macintosh Blade Flexible -Size 4	10

## Single Patient Use Fibre Optic Laryngoscopes

BriteBlade Evo is a fibre optic hybrid metal laryngoscope blade, with a reinforced nylon base locking system designed for single patient use to fit all green specification handles.

### BriteBlade Evo™



#### Reduced Risk of Soft Tissues Injury

Rounded tip and edges provides gentle touch on patients soft tissues.

#### Positive Locking System

The triple sprung ball bearing design creates a secure and strong fit to all green spec handles

#### Enhanced Vision

Bright focused high intensity illumination with a true fibre optic shrouded bundle.

#### Reduced Risk of Damaging Patient Teeth

Low profile design on both Mac & Miller blades.

#### Eliminates Risk of Cross-Infection

Single use individual sterile pack.

#### Wide Choice

Full range of Mac & Miller Blades with a lower overall cost than reusable purchase, maintenance, cleaning and sterilization costs.



040-751	BriteBlade Evo Macintosh - Size 1	10
040-752	BriteBlade Evo Macintosh - Size 2	10
040-753	BriteBlade Evo Macintosh - Size 3	10
040-754	BriteBlade Evo Macintosh - Size 4	10
040-761	BriteBlade Evo Miller - Size 1	10
040-762	BriteBlade Evo Miller - Size 2	10
040-763	BriteBlade Evo Miller - Size 3	10
040-764	BriteBlade Evo Miller - Size 4	10

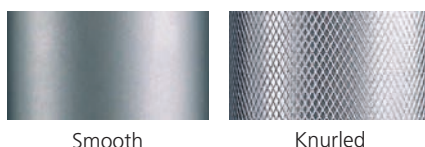
## Fibre Optic Re-Usable Laryngoscope Handles & Box Sets

All handles are Bipolar, allowing the Laryngoscope to function irrespective of the way the batteries are inserted. The handles can be opened from either end in order to remove swelled batteries with ease.



### Available in Two Surface Finishes

The range of Laryngoscope handles are available in a smooth or knurled finish.



### Box Sets

A range of box sets are available, with combinations of 3 or 4 blades.

### Fibre Optic Handles

040-811	Standard Size Fibre Optic Handle - Knurled Finish	1
040-821	Standard Size Fibre Optic Handle - Satin Finish	1
040-812	Mini Size Fibre Optic Handle - Knurled Finish	1
040-822	Mini Size Fibre Optic Handle - Satin Finish	1
040-823	Stubby Size Fibre Optic Handle - Knurled Finish	1
040-824	Stubby Size Fibre Optic Handle - Satin Finish	1

### Halogen Bulbs

041-601	Halogen Bulb (for use with Fibre Optic Handles)	1
041-606	Halogen Bulb (for use with Fibre Optic Handles)	6

### Fibre Optic Box Sets

040-860	Standard Size Handle - Knurled, with 3 Macintosh Blades No's 1, 2 and 3	1
040-861	Standard Size Handle - Knurled, with 4 Macintosh Blades No's 1, 2, 3 and 4	1
040-862	Standard Size Handle - Knurled, with 3 Macintosh Blades No's 2, 3 and 4	1



## LED Handles

Flexicare has introduced a range of handles which are capable of delivering a high illumination and are compatible with all fibre optic blades conforming to EN ISO 7376. BritePro Max uses the latest in LED technology to provide an electroluminescence which is a strong white light allowing clinicians to have a clearer view of the larynx and a truer view of tissue viability or lesions.

# BritePro Max™

### Energy Efficient

Delivers over 25,000 hours of light without the need to replace the bulb.

### Compatible with all Fibre Optic Blades

BritePro Max is compatible with all fibre optic blades conforming to ISO EN 7376 includes, the BriteBlade Pro, EVO and reusable fibre optic blades.

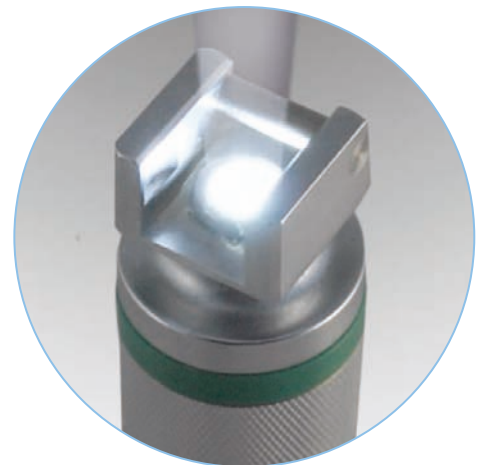
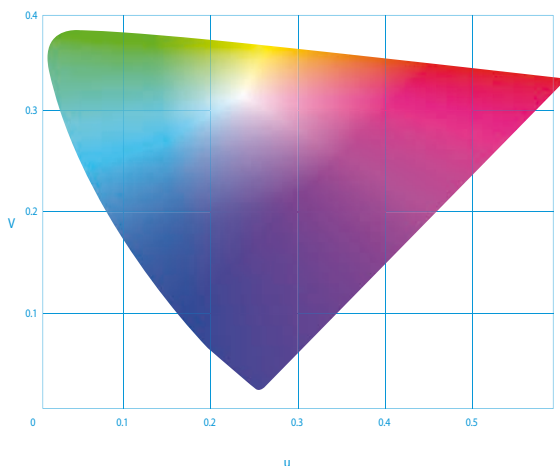
### Green System Identification

BritePro Max has the universally accepted colour identification green band to signify that the handle will fit fibre optic blade systems.

### Lower Battery Cost

The energy efficiency of LED technology uses less power from the batteries than conventional halogen or krypton bulbs therefore reducing the need for frequent battery replacement.

### True White Light



BritePro Max achieves an optimum white light within the wavelength range by utilizing a UV diode with a yellow phosphor semiconductor. The visible light achieved enables clinicians to view the oropharyngeal space clearly without other colour temperatures within the spectrum detracting from visualization of the vocal chords during intubation.

The typical life span of the LED is in excess of 25,000 hours with the added benefit of maintaining its light output and efficiency throughout its term. As an energy efficient technology, BritePro Max will use less power from the batteries in comparison to halogen or krypton bulbs providing up to 5,000 intubations per set of battery cells without loss of its high light output.

## Single Patient Use Fibre Optic Laryngoscope Handle

BritePro is a single patient use fibre optic handle system which comprises of a disposable handle and a reusable light source utilizing the latest in LED technology providing clinicians with a complete system.

### BritePro Handle™

#### Single Patient Use

Clearly marked to ensure that the handle is only used as intended.

#### Comfort Grip

The main body of the handle incorporates a green textured grip which provides excellent control and feel even when wearing gloves. Green colour coding clearly identifies the handle as fibre optic.

#### Eliminate Risk of Cross-Contamination

Single use individually packed pre-sterilized handle.



#### Rotating Metal Hinge

A freely rotating metal hinge allows the blade to be inserted easily whilst providing a positive locking mechanism when moved into the closed position.

#### Fully Encased Handle

BritePro features a completely unique encased mechanism which prevents any possibility of cross contamination. Incorporated within the encased handle is a freely moving light intensifier which maximises the transfer of light from the LightSource through to the tip of the fibre optic blade.

#### BritePro Handle

040-791	BritePro Handle	20
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To be used with lightsource only

#### Light Source

040-792	LightSource	1
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#### BritePro Handle & Light Source

040-794	BritePro Handle and Light Source	20
040-795	BritePro Handle and Light Source with Battery	20

#### BritePro Handle & Blade

040-771	BritePro Handle and BriteBlade Evo Macintosh Size 1	10
040-772	BritePro Handle and BriteBlade Evo Macintosh Size 2	10
040-773	BritePro Handle and BriteBlade Evo Macintosh Size 3	10
040-774	BritePro Handle and BriteBlade Evo Macintosh Size 4	10
040-776	BritePro Handle and BriteBlade Evo Miller Size 1	10
040-777	BritePro Handle and BriteBlade Evo Miller Size 2	10
040-778	BritePro Handle and BriteBlade Evo Miller Size 3	10
040-779	BritePro Handle and BriteBlade Evo Miller Size 4	10

To be used with lightsource only

## Britepro Light Source

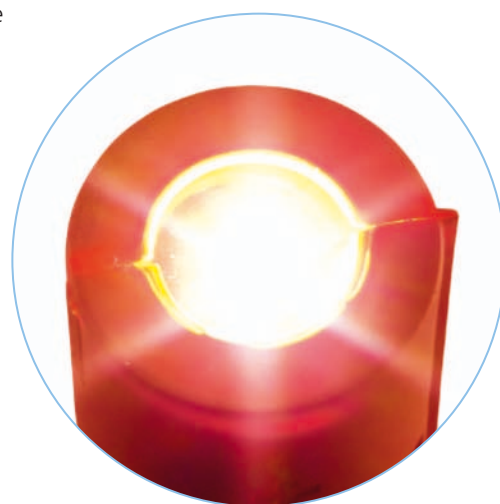
LightSource is the reusable element of the BritePro system which contains the lithium battery and LED.

### LightSource™

The latest technology has been used to develop an efficient LED whilst providing a white light within the colour spectrum ensuring that there is no bias between blue or red light which could make visualization of the vocal chords harder.

The benefits of this system is that there is no contamination as the light source is protected.  
The LED lightsource provides cool illumination for up to 10 hours and is energy efficient giving long lasting power, reducing the cost of expensive battery replacement while also being more environmentally friendly.

- Long life Battery
- Packed with Battery
- Reusable Light Source
- LED Light Output at over 1000 LUX at the tip of the blade



There are five options available when purchasing BritePro.

**LightSource:** Single unit complete with battery.

**BritePro Handle:** Comes packaged in a box of 20.

**BritePro Handle & Blade:** BritePro handle with a choice of blade.

**BritePro Handle & LightSource:** BritePro Handle and LightSource with optional battery.

**BritePro Complete:** Contains all elements required to use the BritePro immediately, pre-assembled for testing in the packaging.

### BritePro Complete

Our packaging design enables the user to test the pre-assembled Britepro without removing it from the packaging.

Front



Back



Testing Lightsource



### BritePro Complete

040-701	BritePro Complete with BriteBlade Evo Macintosh Size 1	10
040-702	BritePro Complete with BriteBlade Evo Macintosh Size 2	10
040-703	BritePro Complete with BriteBlade Evo Macintosh Size 3	10
040-704	BritePro Complete with BriteBlade Evo Macintosh Size 4	10
040-706	BritePro Complete with BriteBlade Evo Miller Size 1	10
040-707	BritePro Complete with BriteBlade Evo Miller Size 2	10
040-708	BritePro Complete with BriteBlade Evo Miller Size 3	10
040-709	BritePro Complete with BriteBlade Evo Miller Size 4	10

## Standard Laryngoscope Blades

The standard range of laryngoscopes are manufactured from high quality stainless steel supported by a lifetime guarantee<sup>1</sup>. The light bulb in the blade can easily be changed and the distance from the bulb to the blade tip will protect the patient from accidental burns, whilst providing a high level of illumination.

High Quality Stainless Steel • Fully Autoclavable Blades • Full Range of Blade Sizes • Conforming to EN ISO 7376

### Standard Macintosh Blades



040-110	Standard Macintosh Blade No 1	1
040-111	Standard Macintosh Blade No 2	1
040-112	Standard Macintosh Blade No 3	1
040-113	Standard Macintosh Blade No 4	1

### Standard Miller Blades



040-127	Standard Oxy Miller No 00	1
040-129	Standard Miller No 00	1
040-128	Standard Oxy Miller No 0	1
040-130	Standard Miller No 0	1
040-131	Standard Miller No 1	1
040-132	Standard Miller No 2	1
040-133	Standard Miller No 3	1
040-134	Standard Miller No 4	1

<sup>1</sup> For details of the lifetime guarantee please visit our website



## Speciality Blades

Flexicare has a range of conventional reusable speciality blades designed to provide clinicians with complete freedom of choice for specific patient intubation requirements.

### Robert Shaw Conventional Blades

Designed for neonatal and Infant use, Robert Shaw blades feature a gentle shallow curvature of the blade to lift the epiglottis indirectly in a similar way to the Macintosh Blades.



040-230	Robert Shaw Conventional Blade No 0	1
040-231	Robert Shaw Conventional Blade No 1	1

### Seward Conventional Blades

Designed originally as an infant blade for asphyxia neonatorum, Seward Blades are also available for paediatrics.



040-261	Seward Conventional Blade No 1	1
040-262	Seward Conventional Blade No 2	1

### Wisconsin Conventional Blades

Designed for neonatal and infant use, Wisconsin Blades provide an improved view than a standard Miller Blade and also greater control of the epiglottis with the subtly wider distal end of the blade.



040-250	Wisconsin Conventional Blade No 0	1
040-251	Wisconsin Conventional Blade No 1	1
040-252	Wisconsin Conventional Blade No 3	1
040-253	Wisconsin Conventional Blade No 4	1
040-254	Wisconsin Conventional Blade No 5	1

## Disposable Metal Blades & Handles

Flexicare offers a standard illumination disposable metal blade providing all the benefits in a single patient use form, negating the need for costly sterilisation.

### True Macintosh Curve

Provides maximum view.

### Halogen bulb

The distance from the bulb to the blade tip will protect the patient from accidental burns, whilst providing a high level of illumination.

### Cost Effective

The blade can be re-used for re-intubation of the same patient therefore eliminating the need for a new blade.

### Visible Markings

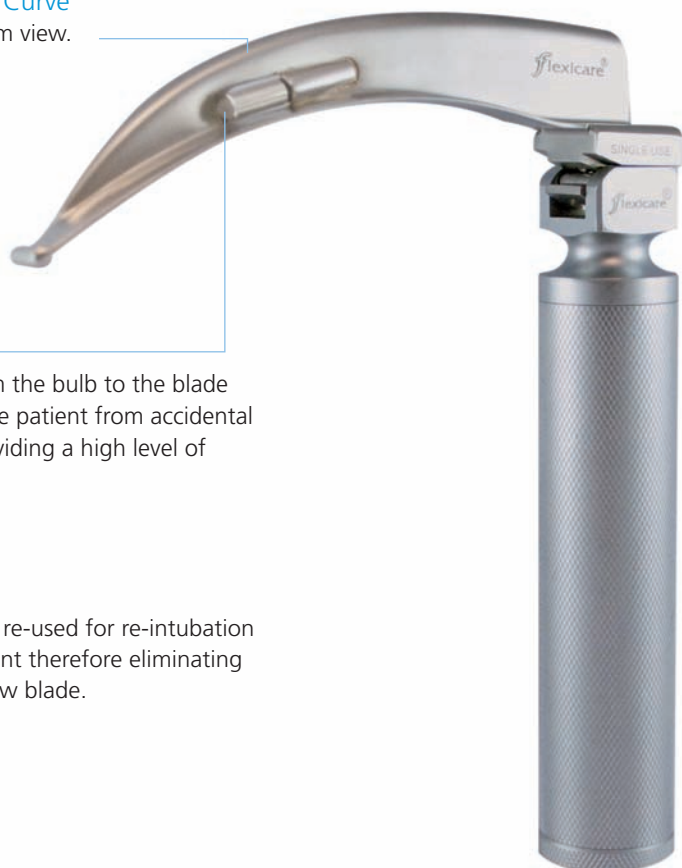
Each blade is clearly marked as Single Patient Use, avoiding the possibility of confusion with Reusable Blades.

### Low Profile Design

Reduces the risk of accidental pressure or damage to the upper teeth.

### Reduce the Risk of Cross Contamination

The standard bulb disposable metal laryngoscope range is designed and manufactured for Single Patient Use.



The disposable Laryngoscopes are an economical option for routine intubations, saving time and labour by requiring no sterilization, disinfecting or maintenance. Flexicare's disposable laryngoscopes help to eliminate the concern of possible cross-contamination from hepatitis, AIDS and other infectious diseases.

Standard Disposable Metal Blades are available in all Macintosh sizes and can be used with either a reusable standard handle or for a total single patient use solution, a disposable standard metal handle is available.



040-431	Disposable Metal Macintosh No 1	10
040-432	Disposable Metal Macintosh No 2	10
040-433	Disposable Metal Macintosh No 3	10
040-434	Disposable Metal Macintosh No 4	10
040-430	Disposable Metal Handle	10

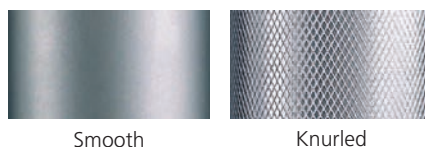
## Standard Re-Usable Laryngoscope Handles & Box Sets

All handles are Bipolar, allowing the Laryngoscope to function irrespective of the way the batteries are inserted. The handles can be opened at either end in order to remove swelled batteries with ease.



### Available in Two Surfaces Finishes

The range of Laryngoscope handles are available in a smooth or knurled finish.



### Box Sets

A range of box sets are available, with combinations of 3 or 4 blades.

### Standard Handles

040-021	Standard Size Standard Handle - Knurled Finish	1
040-011	Standard Size Standard Handle - Satin Finish	1
040-022	Mini Size Standard Handle - Knurled Finish	1
040-012	Mini Size Standard Handle - Satin Finish	1
040-023	Stubby Size Standard Handle - Knurled Finish	1
040-013	Stubby Size Standard Handle - Satin Finish	1

### Kryton Bulbs

041-401	Small Kryton Bulb (for use with Standard Miller Blades No's 00, 0 and 1)	1
041-402	Standard Kryton Bulb (for use with Standard Blades)	1

### Standard Box Sets

040-239	Standard Size Handle - Knurled, with 3 Macintosh Blades No's 2, 3 and 4	1
040-240	Standard Size Handle - Knurled, with 3 Macintosh Blades No's 1, 2 and 3	1
040-241	Standard Size Handle - Knurled, with 4 Macintosh Blades No's 1, 2, 3 and 4	1

# Packs & Magill Forceps

## Packs

In addition to the Fibre Optic and Standard Reusable Laryngoscope Box Sets which are readily available, Flexicare offer a customisation option whereby clinicians can choose a combination of handles and blades for a bespoke intubation pack. The handles and blades are protected by the outer casing as well as being securely held in place within designated foam inner compartments. For further information please contact us to discuss your requirements.



## Magill Forceps

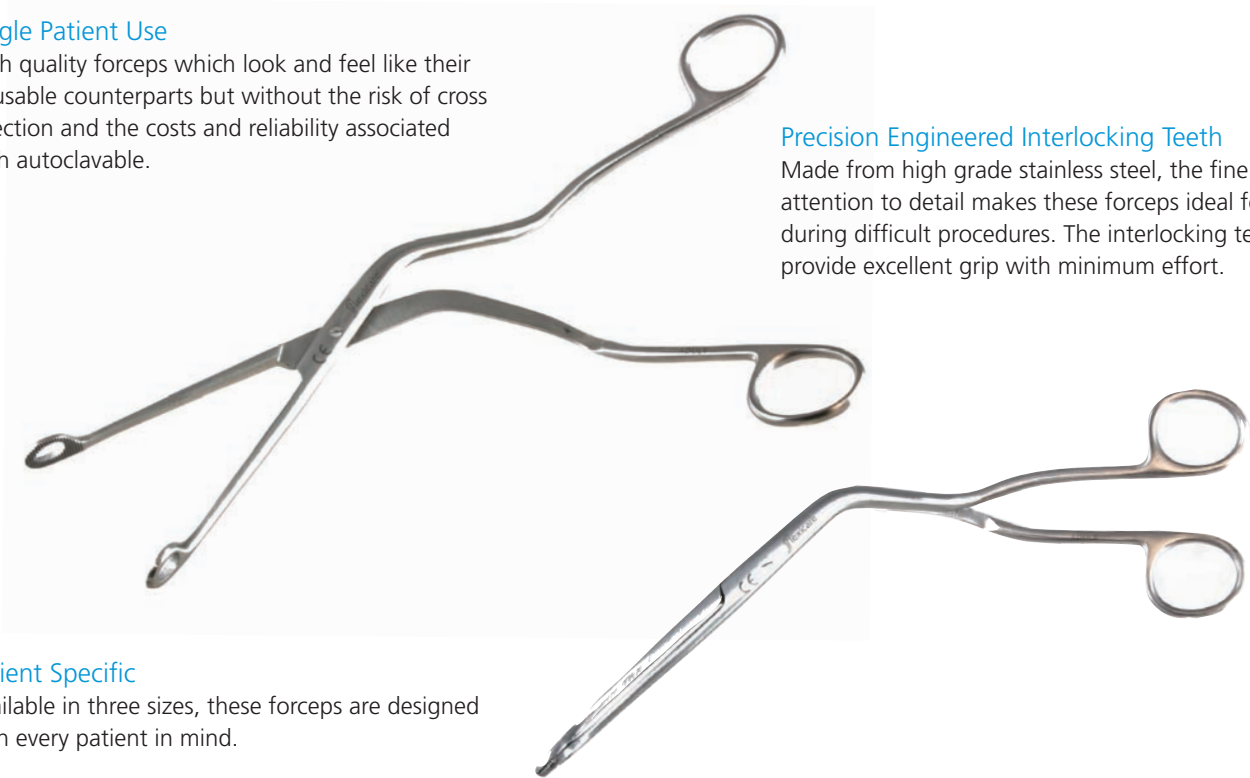
Flexicare offers a range of Magill Forceps which are designed to allow clinicians to guide tracheal tubes into the larynx or aid nasogastric tubes into the oesophagus whilst maintaining an uninterrupted view from the laryngoscope. The stainless steel single patient use forceps are available in 3 sizes to meet specific patients' requirements.

### Single Patient Use

High quality forceps which look and feel like their re-usable counterparts but without the risk of cross infection and the costs and reliability associated with autoclavable.

### Precision Engineered Interlocking Teeth

Made from high grade stainless steel, the fine attention to detail makes these forceps ideal for use during difficult procedures. The interlocking teeth provide excellent grip with minimum effort.



### Patient Specific

Available in three sizes, these forceps are designed with every patient in mind.

042-411	Magill Forceps Adult	10
042-412	Magill Forceps Child	10
042-413	Magill Forceps Infant	10



## Endotracheal Tubes

An Endotracheal Tube is a device inserted into the patient's trachea through the mouth or nose to maintain an open airway. It is used to assist the delivery of anaesthetic gases or air to and from the patient. Control of the airway with Endotracheal tube is usually regarded as the 'Gold Standard' (C. McCartney and D.J. Wilkinson, Current Anaesthesia and Critical Care 1995).

### Tracheal Intubation Objectives

- Guarantee patency of the upper airway.
- Allow mechanical positive pressure management.
- Protect the airway from gastric contents.
- Permits tracheobronchial suction.

### Anatomy and Physiology of the Respiratory System

The respiratory system can be broadly defined into the upper respiratory tract and the lower respiratory tract. The organs of the system include the nasal cavities, the pharynx, the larynx, the trachea, the bronchi and their smaller branches and the lungs which contain the terminal air sacs or alveoli.

Air inhaled through the nasal cavity is filtered by cilia. The air is also warmed and moistened by the capillary blood supply to the mucosa of the upper respiratory tract. The air then goes into the pharynx, larynx and followed by the trachea. The trachea stretches and descends during inspiration and recoils during expiration. The cartilage rings prevent it from collapsing and maintaining patency during breathing.

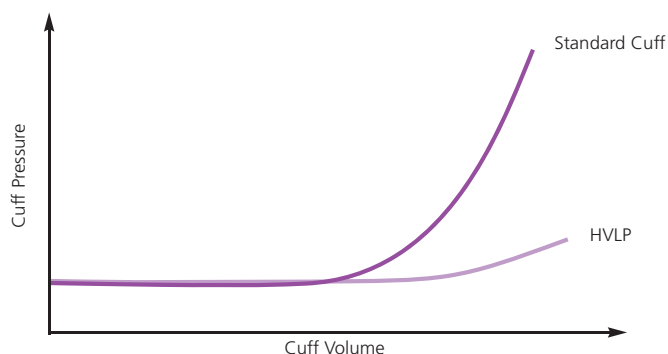
Air enters the right and left bronchus before reaching the bronchioles and later the alveoli, which contain capillaries where the gaseous exchange takes places. To ensure that the lungs are being ventilated at all times and protect against potential blockages by the tip of the tube resting on the tracheal wall, all Flexicare Endotracheal Tubes have a Murphy Eye as standard. The Murphy Eye also helps to maintain flow during suctioning, and also aids in maintaining the flow of the gases to both lungs should the tube move further into one of the bronchuses.

Flexicare offer endotracheal tubes with two different cuff types:

**Standard Low Pressure Cuffs**

**VentiSeal High Volume Low Pressure Cuffs (HVLP)**

The graph demonstrates the difference between the two types of Endotracheal tubes in relation to cuff pressure and cuff volume. The pressure necessary for the Standard Cuff to form an adequate seal increases as cuff volume increases. This happens at a higher ratio than compared with the Endosoft HVLP cuff. This characteristic determines the term of use of the respective cuffed endotracheal tubes.



The Standard Low Pressure Endotracheal Tubes are ideal for short-term intubation while the VentiSeal HVLP cuff is designed for longer term anaesthesia or intensive care where the cuff forms a seal without putting excess pressure on the wall of the trachea. Over inflation of a Standard Cuff and prolonged use will occlude the capillaries in the tracheal wall and will cause necrosis as shown in Figure 1.

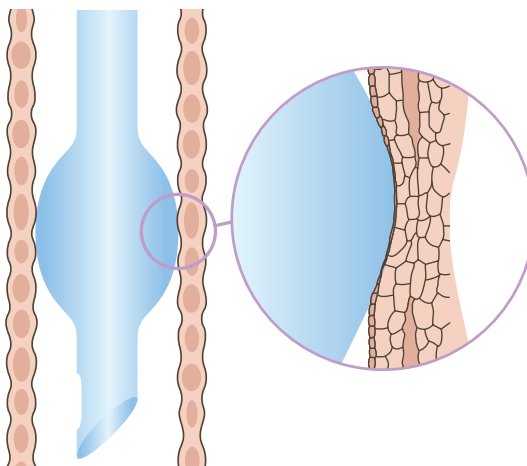


Figure 1

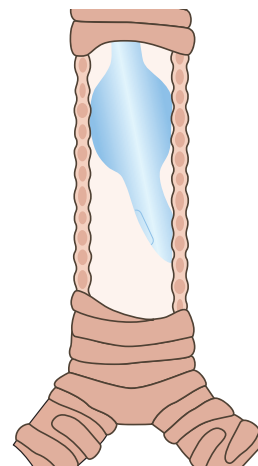


Figure 2

The Murphy Eye is standard on all Flexicare Endotracheal Tubes to ensure that adequate ventilation is maintained even if the tip of the Tube was fixed to the tracheal wall or occluded by secretions, as shown in Figure 2.

## Endotracheal Tubes - Plain Tubes (without cuff)

Our comprehensive range of Endotracheal Tubes have unique features to ensure patient's safety and comfort, allowing intubation with total confidence. Each individual tube is tested for integrity and safety.

### Optimum Size Murphy Eye

The optimum size murphy eye is smoothly rounded to reduce patient trauma during intubation, whilst minimising the risk of occlusion.

### Smooth Bevelled Tip

Rounded bevelled tip reduces risk of damage to vocal cords during intubation

### High Resolution Radiopaque Line

Guarantees easy and accurate identification of tube position and location during x-ray.



### Kink Resistant

Ensures tube patency for patient safety, whilst softening at body temperature to conform to the patient's respiratory tract.



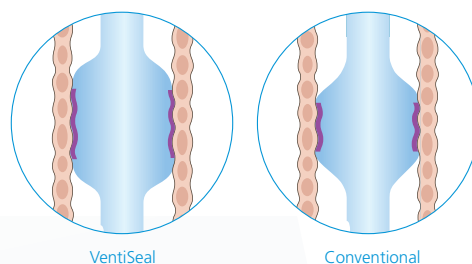
SIZE ID (mm)	ORAL/NASAL	CURVED (Oral) SOUTH	CURVED (Nasal) NORTH	REINFORCED	PACK SIZE
2.5	038-961-025				10
3.0	038-961-030		038-964-030	038-965-030	10
3.5	038-961-035		038-964-035	038-965-035	10
4.0	038-961-040		038-964-040	038-965-040	10
4.5	038-961-045		038-964-045	038-965-045	10
5.0	038-961-050	038-962-050	038-964-050	038-965-050	10
5.5	038-961-055	038-962-055	038-964-055	038-965-055	10
6.0	038-961-060	038-962-060	038-964-060	038-965-065	10
6.5	038-961-065	038-962-065	038-964-065	038-965-065	10
7.0	038-961-070	038-962-070	038-964-070	038-965-070	10
7.5	038-961-075	038-962-075		038-965-075	10
8.0	038-961-080	038-962-080		038-965-080	10
8.5	038-961-085	038-962-085		038-965-085	10
9.0	038-961-090	038-962-090		038-965-090	10
9.5	038-961-095				10
10.0	038-961-100				10
10.5	038-961-105				10
11.0	038-961-110				10

## Endotracheal Tubes - VentiSeal (High Volume Low Pressure)

Reduced Risk of Vocal Injury and Trachea Necrosis - An optimum volume cuff with ideal pressure distribution and effective sealing. Smaller thin wall cuff reduces abrasive creases and folds. The ultra-smooth material permits gentle conformity to tracheal contours.

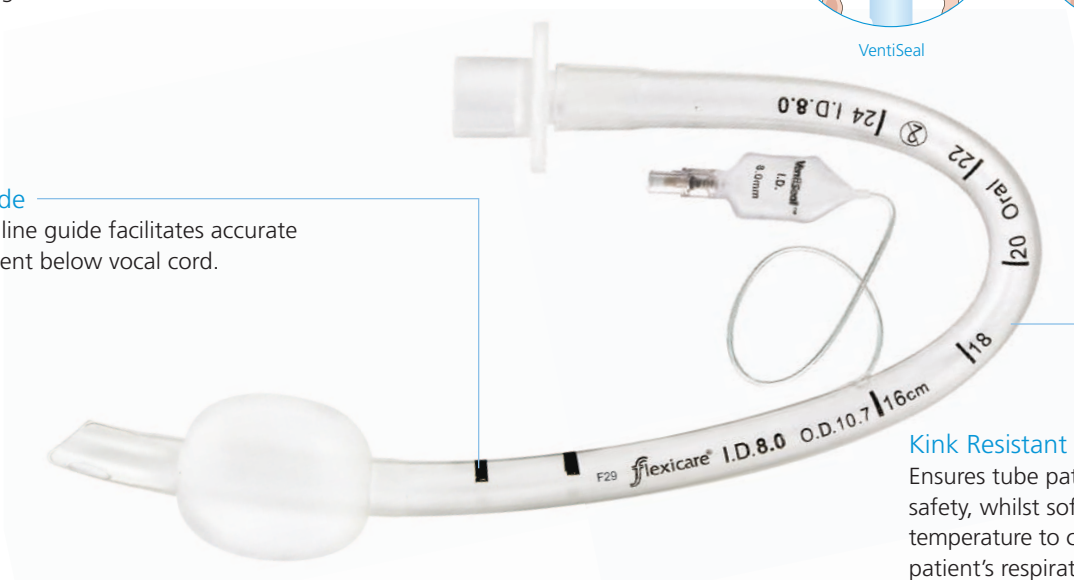
# VentiSeal™

The diagram demonstrates the difference between the surface area that is in contact with the trachea when using a VentiSeal Cuffed Tube and a conventional tube. The cuff length of the VentiSeal Endotracheal Tube enables the pressure to be distributed over a larger surface therefore minimising the pressure placed on the tracheal wall and reducing the risk of tracheal wall necrosis.



### Depth Guide

The double line guide facilitates accurate cuff placement below vocal cord.



### Kink Resistant

Ensures tube patency for patient safety, whilst softening at body temperature to conform to the patient's respiratory tract.



SIZE ID (mm)	ORAL/NASAL	CURVED (Oral) SOUTH	ANATOMICAL (Oral)	CURVED (Nasal) NORTH	REINFORCED	PACK SIZE
2.5	038-971-025					10
3.0	038-971-030					10
3.5	038-971-035					10
4.0	038-971-040					10
4.5	038-971-045					10
5.0	038-971-050	038-972-050				10
5.5	038-971-055	038-972-055				10
6.0	038-971-060	038-972-060	038-973-060	038-974-060	038-975-060	10
6.5	038-971-065	038-972-065	038-973-065	038-974-065	038-975-065	10
7.0	038-971-070	038-972-070	038-973-070	038-974-070	038-975-070	10
7.5	038-971-075	038-972-075	038-973-075	038-974-075	038-975-075	10
8.0	038-971-080	038-972-080	038-973-080	038-974-080	038-975-080	10
8.5	038-971-085	038-972-085	038-973-085		038-975-085	10
9.0	038-971-090	038-972-090	038-973-090		038-975-090	10
9.5	038-971-095					10
10.0	038-971-100					10
10.5	038-971-105					10
11.0	038-971-110					10

# Endotracheal Tubes - Standard (Low Pressure Cuff)

The Standard Range of Low Pressure Endotracheal tubes are designed for short-term intubation. The cuff size and shape make the Standard Low Pressure Endotracheal tube ideal for emergency intubation, as the slim-line shape facilitates quick and easy intubation to maintain an open airway.

### Pilot Balloon

The tube size, batch number and an outline of the cuff type are shown on the pilot balloon to provide easy identification.

### Depth Guide

The double line guide facilitates accurate cuff placement below vocal cord.

### High Resolution Radiopaque Line

Guarantees easy and accurate identification of tube position and location during x-ray.

### Kink Resistant

Ensures tube patency for patient safety, whilst softening at body temperature to conform to the patient's respiratory tract.

SIZE ID (mm)	ORAL/NASAL	CURVED (Oral)	CURVED (Nasal)	PACK SIZE
5.0	038-981-050	038-982-050	038-984-050	10
5.5	038-981-055	038-982-055	038-984-055	10
6.0	038-981-060	038-982-060	038-984-060	10
6.5	038-981-065	038-982-065	038-984-065	10
7.0	038-981-070	038-982-070	038-984-070	10
7.5	038-981-075	038-982-075	038-984-075	10
8.0	038-981-080	038-982-080	038-984-080	10
8.5	038-981-085	038-982-085		10
9.0	038-981-090			10
9.5	038-981-095			10
10.0	038-981-100			10
10.5	038-981-105			10
11.0	038-981-110			10

### Jaw Opener

To be used with an ET Tube when the patient has 'Teeth Clench'.



### ET Tube Holder

The ET tube holders are compatible with all sizes of ET Tube.



038-96-001	ET Tube Holder	10
038-96-006	Jaw Opener	10

## Stylets and Bougies

Flexicare has developed a range of single use Bougies and Stylets to complement the range of Laryngoscopes and Endotracheal tubes, providing clinicians with a comprehensive range of airway devices.

### Bougies

#### Reduced patient trauma

The rounded formed tip provides a smooth surface that allows the Bougie to be inserted without damaging the soft tissue.

#### Coude Tip

Facilitates correct placement by providing accurate feel of the tracheal wall C-Rings. The flexibility also allows for easy removal once an ET Tube is in situ without.

#### Clearly Graduated Marking

Provides depth indication to reinforce correct placement.

#### Eliminate the risk of cross contamination

Provided sterile, the single patient use Bougie eliminates the risk of cross infection.



038-968-016	Bougie / Introducer OD 1.6mm (5CH) x 500mm Sterile	10
038-968-033	Bougie / Introducer OD 3.3mm (10CH) x 700mm Sterile	10
038-968-050	Bougie / Introducer OD 5.0mm (15CH) x 700mm Sterile	10

### Stylets



The range of shapeable stylets are manufactured with an aluminium core, with a soft touch outer casing. Available in a range of OD and lengths to meet specific patient needs.

#### Smooth Formed Tip

Reduces the risk of damaging soft tissue.

#### Range of Flexibility

The stylets can be shaped into the required curvature to suit the intubation need.

#### Single Patient Use

Supplied sterile, eliminating the risk of cross contamination.



038-967-022	Stylet OD 2.2mm (6CH) 225mm Long, Paediatric Sterile	10
038-967-040	Stylet OD 4.0mm (12CH) 365mm Long, Adult Sterile	10
038-967-050	Stylet OD 5.0mm (15CH) 365mm Long, Adult Sterile	10
038-967-140	Stylet OD 4.0mm (12CH) 700mm Long, Adult Sterile	10
038-967-150	Stylet OD 5.0mm (15CH) 700mm Long, Adult Sterile	10



# Nasopharyngeal Airways

NasoSafe is an innovative Nasopharyngeal Airway. The swivel safety grip eliminates the risk of the airway from travelling down the nasal passage whilst providing maximum comfort for the patient.

## NasoSafe®

### Patient Comfort

The swivel grip allows for positioning of the airway in the most comfortable position. The safety grip can be rotated through 360° to place the airway in the most convenient position without blocking the free nostril. The extended lip of the safety grip prevents the airway being sucked in while in situ.

### Allows Access

NasoSafe is ideal when the oral passage is not accessible. It also allows for nasotracheal suctioning.

### Better Tolerance

NasoSafe is better tolerated by patients than oropharyngeal airways.

### Swivel Safety Grip

The NasoSafe swivel grip protects the nasopharyngeal airway from loss in the nasal passage.

### Reduced Risk of Injury During Intubations

The rounded edge of the tip combined with the angle cut design helps to reduce the risk of injury during intubation.

### Reduced Risk of Patient Reaction

NasoSafe is made of medical grade PVC and is implant tested.









NasoSafe® is best inserted when the patient is in the supine position. The airway should be lubricated with a water soluble lubricant prior to insertion. The rounded bevelled tip reduces mucosal wall trauma and guides the airway along the floor of the nasal passage. When correctly in place the tip of the airway should be visible behind the uvula.



### Size Colour Coding

Available in 6 sizes with colour coded swivel grips, that co-ordinate with suction catheter sizes.

		mm		fr			
		ID	OD	ID	OD		
038-95-004	NasoSafe Size 4 - Dark Green	4.0mm	7.0mm	16fr	20fr		10
038-95-005	NasoSafe Size 5 - Black	5.0mm	8.0mm	20fr	24fr		10
038-95-006	NasoSafe Size 6 - Green	6.0mm	9.0mm	24fr	26fr		10
038-95-007	NasoSafe Size 7 - Orange	7.0mm	10mm	28fr	30fr		10
038-95-008	NasoSafe Size 8 - Dark Red	8.0mm	11mm	32fr	34fr		10
038-95-009	NasoSafe Size 9 - Purple	9.0mm	13mm	36fr	38fr		10

## Nasopharyngeal Airways

NasoClear is a simple and effective airway adjunct designed for easy insertion and maximum patient compliance.

### NasoClear™



#### In-built Safety

NasoClear has an integrated connector designed to prevent the tube from travelling down the nasal passage and removes the need to use a safety pin eliminating the risk of clinician or patient injury.

#### Flared Nasal Opening

The large flared opening prevents the nasopharyngeal airway from physically travelling down the nasal passage but also allows for comfortable positioning without obstructing the other nostril.

#### Size Identification

Clearly labelled sizing enables clinicians to choose the correct NasoClear for the patient.

#### Clear Construction

Provides visual confirmation before insertion that there are no blockages.

#### Reduced Risk of Patient Reaction

NasoClear is made of medical grade PVC and is implant tested.

#### Allows Access

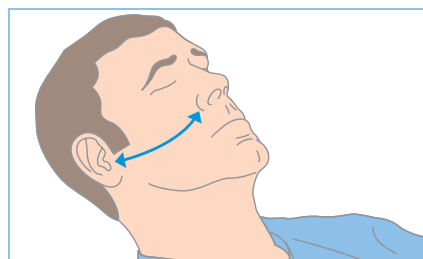
Ideal when the oral passage is not accessible. It also allows for nasotracheal suctioning.

#### Patient Comfort

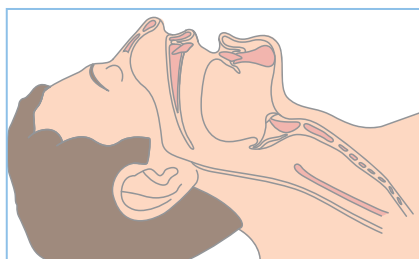
NasoClear is better tolerated by awake patients than oropharyngeal airways.

#### Reduced Risk of Injury During Intubations

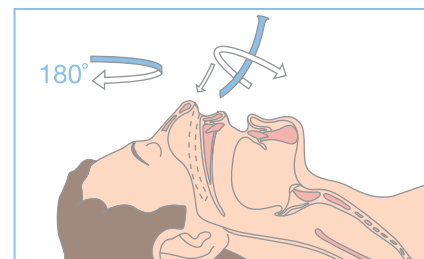
Rounded bevelled tip reduces mucosal wall trauma and guides the airway along the floor of the nasal passage.



The length of the nasal airway can be estimated by the distance from the patients nostril to the earlobe, or the angle of the jaw.



The nasal airway is best inserted when the patient is in the supine position. The airway should be lubricated with a water soluble lubricant prior to insertion.



Insert with the curve facing the opposing direction and follow the nasal passage whilst turning the nasopharyngeal airway through 180°

		mm		fr		
		ID	OD	ID	OD	
038-95-004C	NasoClear Size 4	4.0mm	7.0mm	16fr	20fr	10
038-95-005C	NasoClear Size 5	5.0mm	8.0mm	20fr	24fr	10
038-95-006C	NasoClear Size 6	6.0mm	9.0mm	24fr	26fr	10
038-95-007C	NasoClear Size 7	7.0mm	10mm	28fr	30fr	10
038-95-008C	NasoClear Size 8	8.0mm	11mm	32fr	34fr	10
038-95-009C	NasoClear Size 9	9.0mm	13mm	36fr	38fr	10

## Guedel Airways

Flexicare has a full range of guedel airways with colour coded bite blocks, our guedel airways provide free air flow whilst protecting the airway from occlusion.

### Integrated Bite Block

Prevents the patient from biting down and occluding airway.

### Smooth bevelled tip

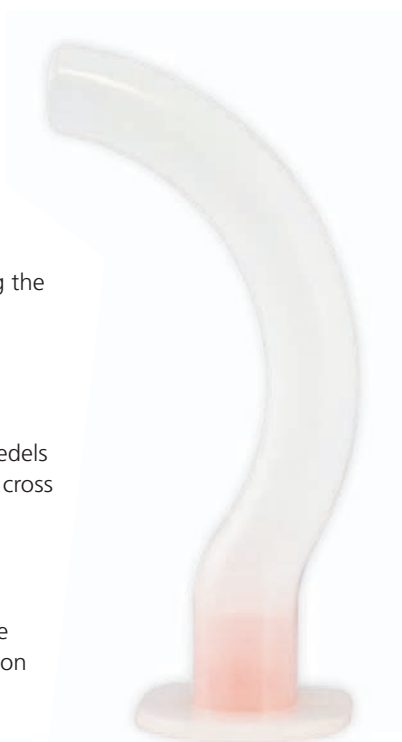
Allows for easy insertion and minimising the risk of causing patient trauma.

### Sterile

The individually packaged single use guedels are supplied sterile to reduce the risk of cross infection.

### Guedel Packs

Airway packs are available which include all sizes of Guedels. Great for resuscitation and difficult intubation. All guedels are individually packed.

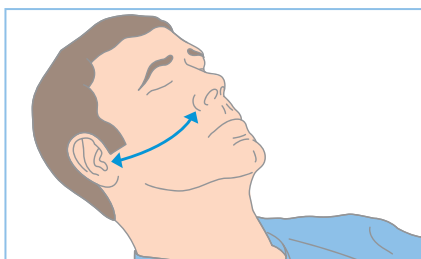


### Colour Coded Bite Block

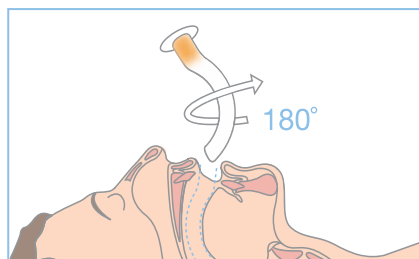
Provides easy identification of the required sized as per internationally accepted guidelines

### Embossed Size

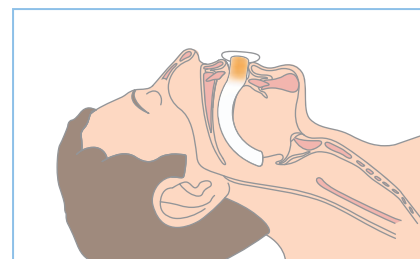
Easy identification of size even if the user is unfamiliar with colour coding.



The length of the Guedel airway can be estimated by the distance from the patients nostril to the earlobe, or the angle of the jaw.



The Guedel airway is best inserted when the patient is in the supine position. Prior to insertion the airway should be lubricated with a water soluble lubricant.



Insert with the curve facing the opposing direction and follow the airway whilst turning the Guedel airway through 180°

038-93-900	Guedel Airway 3.5 (Size 000) without Bite Block		50
038-92-902	Guedel Airway 5.0 (Size 00) with Blue Bite Block		50
038-92-900	Guedel Airway 6.0 (Size 0) with Black Bite Block		50
038-91-910	Guedel Airway 7.0 (Size 1) with White Bite Block		50
038-91-920	Guedel Airway 8.0 (Size 2) with Green Bite Block		50
038-91-930	Guedel Airway 9.0 (Size 3) with Orange Bite Block		50
038-91-940	Guedel Airway 10 (Size 4) with Red Bite Block		50

Guedel Airways are subject to change based on the forthcoming ISO standard changes, please refer to our website for further details.

# ANAESTHESIA BREATHING SYSTEMS

## Adult, Argentic and Paediatric Anaesthesia Circuits

Our range of Breathing Systems include Standard Parallel Circuits, Bain Circuits, Paediatric Circuits and Custom Made Circuits. Ventiflow™ is the complete system for low flow anaesthesia, with options for monitoring line and APL valve.

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## General Anaesthesia

General Anaesthesia is usually obtained by a preliminary intravenous injection of a sleep inducing agent which will render the patient unconscious within a relatively short period of time, during which the patient will be induced using a gaseous mixture of Oxygen and an anaesthetic agent to maintain unconsciousness.

### Essential Requirements of a Breathing System

The most important criteria that a Breathing System must satisfy is that it delivers the intended inspired gaseous mixture from the anaesthetic machine to the alveoli. The fresh gas flow (FGF) rate required to prevent rebreathing of alveolar gas is a measure of the efficiency of a breathing system. It must also effectively dispose of exhaled waste gases. Two other aspects that effect the patient directly is the amount of resistance there is within the system and the amount of dead space that is added by the system.

### Components of a Breathing System

There are several components which may be used in the construction of an anaesthetic breathing system:

1. A fresh gas entry port in the form of a delivery tube.
2. Carbon Dioxide Absorbent (only used in Rebreathing system).
3. APL Valve.
4. Reservoir Bag.

The tubing used in the circuits are either made of corrugated tubing or smooth bore tubing. The design of Flexicare corrugated tubing is such that it aids in flexibility and prevents kinking and occlusion. The height of the corrugations are minimal so that there is minimum air disruption, and it also captures water vapour which occurs naturally during expiration.

Smooth bore tubing as its name suggests, is completely smooth on the inside. Some Anaesthetists argue that these tubes eliminate air turbulence and thus perform better enabling lower FGF than with corrugated tubing. Smooth bore tubing has an external spiral running the entire length of the tube to help reduce the risk of kinking and occlusion.

### All our breathing circuits have the following features:

#### Easy to Manage

The parallel Y piece allows for greater control. The double walled, 22mm M /15mmF patient end connection allows for ease of fitting to Catheter Mounts, ET Tubes, Laryngeal Masks, Face Masks or Elbows. A swivel Y piece on selected circuits facilitates the most convenient position during anaesthesia and the improved design provides for optimum flow with minimal resistance.

#### Crush Resistant

Flexicare has a full range of corrugated tubing in 22mm, 15mm and 10mm made of a flexible co-polymer provides elasticity within the tube which will resist crushing. Flow will be maintained even when twisted through 180°. The lightweight system minimises 'Drag' and pressure on the patient. The shallow tube corrugations minimise flow resistance and turbulence, ensuring the required flow rate is maintained.

#### Easy and Secure Fitting

22mm Female serrated connectors provides a secure fit to the anaesthetic machine. The soft, lightweight and flexible material ensures a secure seal while still allowing ease of connection and disconnection.

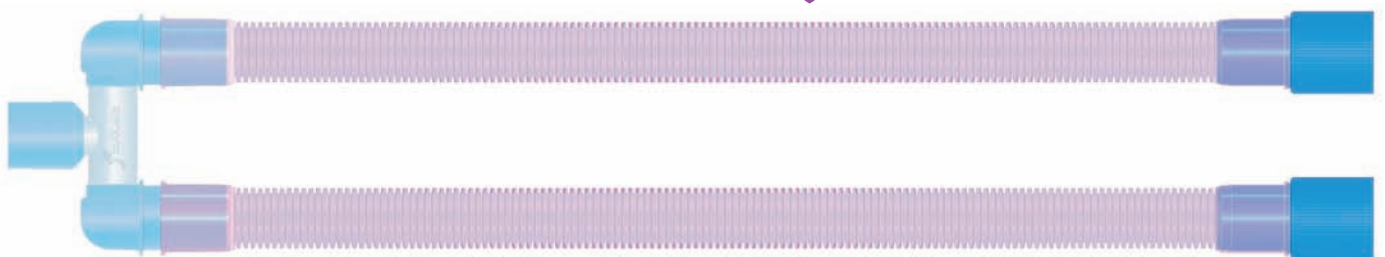
#### Sterile Circuits

We have a number of circuits available as sterile, for further information on our sterile circuits and accessories please contact us.

### Argentic Systems

Argentic is a range of anti-microbial breathing systems to combat microbial contamination within the clinical setting and reducing the risk of Hospital Acquired Infections (HAI). Argentic breathing systems are impregnated with a silver ion additive which rapidly reduces the number of bacterium. When oxygen in the ambient air comes into contact with silver particles it creates a catalytic reaction which helps to inactivate the microbes.

Throughout this catalogue Argentic products are identified with this symbol: 





## Anaesthetic Breathing Systems

### Circular (Closed) Systems

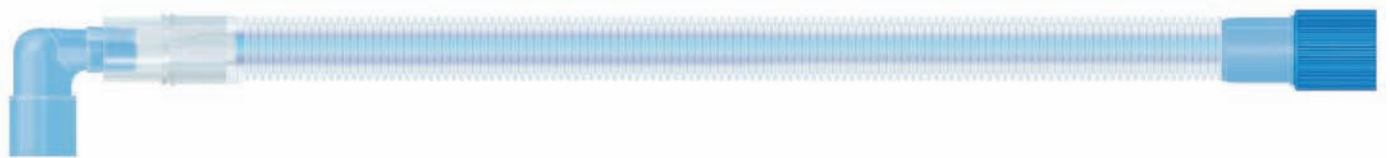
A wide range of Venticare anaesthetic breathing systems are offered to match your specific requirements. All systems are supplied with one spare 22mm male connector, allowing for most connection configurations.



### Bain Systems

The Bain Circuit uses a high fresh gas flow to deliver anaesthetic gases to the patient and to wash out the exhaled CO<sub>2</sub>.

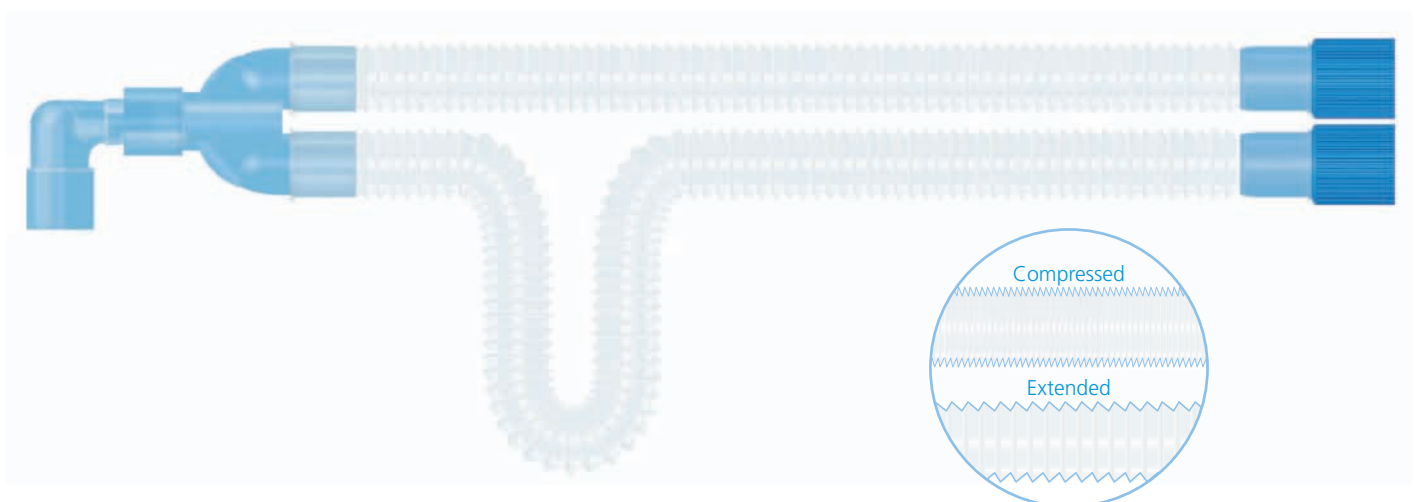
The construction of the Bain Circuit uses an inner tube which delivers fresh gases to the patient and an outer corrugated tube that transports the exhaled gases. This system ensures there is no Rebreathing of the exhaled gases when the correct flow rate is set, this is dependent on the patient's minute ventilation.



### Flexi-Lock Systems

An expandable circuit which allows for greater flexibility within the operating room or when patients are being transported.

The circuit can be expanded to the desired length and curved into a specific position without the need to tie down the circuit.



### Smooth Bore Circle Systems

The smooth bore tube allows for the flow of gases with less resistance and reduced turbulence which can sometimes be associated with some corrugated tube circuits.

**Kink Resistant** - The spiral outer casing of the tube is designed to support patency of the inner lumen, ensuring delivery of fresh gas.

**Easy and Secure Fitting** - 22mm F flexible connectors provide a secure fitting to the machine.



# Mapleson Circuits

## Mapleson A - (Magill, Parallel Lack and Coaxial Lack)

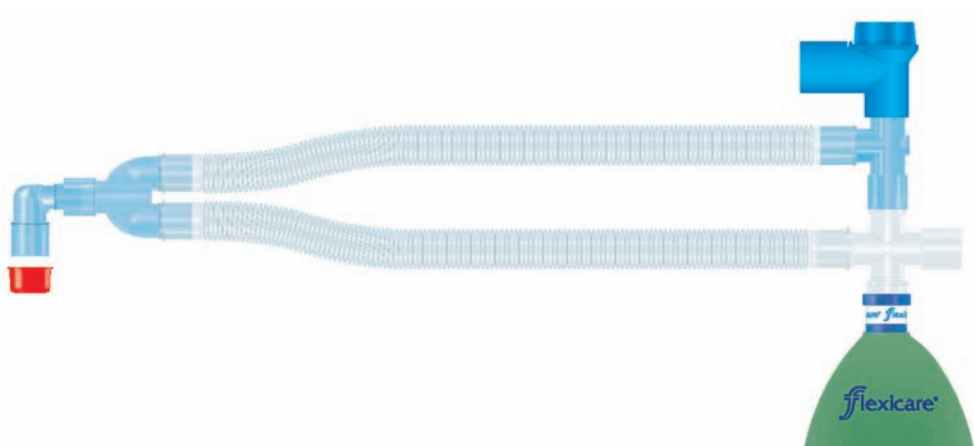
This system consists of a reservoir bag close to the fresh gas outlet with the APL valve placed at the patient end (Magill A, or expiratory limb-Parallel Lack). During inspiration, as the patient's inspiratory flow is greater than the Fresh Gas Flow, additional gasses will be drawn out from the reservoir bag. During the expiratory phase, exhaled gases will force the fresh gas back into the circuit and reservoir bag. In the expiratory phase, exhaled gases will force the fresh breathing system and thus forcing the exhaled gasses to escape through the APL valve (scavenging port). The system requires a low flow (0.8-1 times of Minute Volume, approximately 6-8 litres/minute) during spontaneous respiration to prevent Rebreathing. This system is not recommended for intermittent positive pressure ventilation. (IPPV)

### Magill System



038-01-256	Mapleson A Magill System (1.6m) 22mm lightweight corrugated tube with 2L Reservoir Bag and Adult APL Valve	20
038-01-256Ag	As above with Argentic Tubing	<div>Ag</div> 20

### Parallel Lack



038-01-257	Mapleson A Parallel Lack System (1.6m) 22mm lightweight corrugated tubes with 2L Reservoir Bag and Adult APL Valve	20
038-01-257Ag	As above with Argentic Tubing	<div>Ag</div> 20

## Mapleson Circuits

### Mapleson C - (Waters Bag, Bagging System - Adult, Direct and Paediatric and Resuscitation Bag).

This system is similar to Mapleson B, however, the bag is positioned very close to the patient. This system is used for manual ventilation during resuscitation. A flow rate of 1.5-2 times of the minute volume is required to avoid Rebreathing.

#### Adult Bagging System



038-01-255	Mapleson C Bagging System (1.6m) 10mm lightweight corrugated tube with 2L Reservoir Bag and Adult APL Valve + 15F/6-9mm adaptor	20
038-01-258	Mapleson C Bagging System (2.1m) Star Lumen tube with 2L Reservoir Bag and Adult APL Valve + 22mm Female adapter	20




### Mapleson D

#### Coaxial Bain

This system is mainly used with ventilated patients. The Fresh Gas Flow is close to the patient and the APL valve is placed away from the patient. The risk of Rebreathing in this circuit is high especially in patients who have a short expiratory pause or do not have an expiratory pause (infants). To overcome this problem a high FGF of 2 - 4 times of the patient's Minute Volume is required to prevent all Rebreathing. In practice some rebreathing is tolerated and in an adult FGF of 6 - 7 litres/minute will maintain a normal arterial CO<sub>2</sub> tension.

#### Bain Systems



038-01-251	Mapleson D Bain System (1.6m) 22mm lightweight corrugated tube with 2L Reservoir Bag and Adult APL Valve	20
038-01-251Ag	As above with Argentic Tubing	 20
038-01-253	Mapleson D Bain System (2.4m) 22mm lightweight corrugated tube with 2L Reservoir Bag and Adult APL Valve	20
038-01-253Ag	As above with Argentic Tubing	 20
038-01-254	Mapleson D Bain System (5.4m) 22mm lightweight corrugated tube with 2L Reservoir Bag and Adult APL Valve	10
038-01-254Ag	As above with Argentic Tubing	 10

## Mapleson Circuits


### Ventiflow and Bain Inner Lumen Tester

Every Ventiflow and Bain Breathing System is supplied with an inner lumen patency tester. The tester is a purpose designed and built tester which facilitates testing of the inner lumen. When setting up the breathing system on the anaesthetic machine or ventilator, many machine's can automatically test the circuit for leaks when the patient end connector is connected to the machine also. An overall leak (or loss of pressure) can be detected but it is not possible to test the patency of each tube individually. The inner lumen tester will allow this. After checking the circuit in the normal way, insert the inner lumen tester down the patient end connector so as to block the end of the fresh gas inner tube. Perform the test again and this time only the fresh gas inner tube will be tested. This will ensure that there is no leak of fresh gas into the expiratory tube.




### Basic Bain Coaxial System 1.6m



038-01-200	Basic Bain Coaxial System (1.6m) 22mm lightweight, flexible corrugated tube with 22mm M swivel connector + low profile elbow	20
038-01-200Ag	As above with Argentic Tubing	 20


### Basic Bain Coaxial System 2.4m



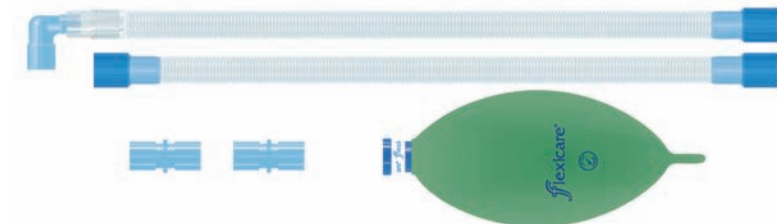
038-01-210	Basic Bain Coaxial System (2.4m) 22mm lightweight, flexible corrugated tube with 22mm M swivel connector + low profile elbow	20
038-01-210Ag	As above with Argentic Tubing	 20


### Basic Bain Coaxial System 1.6m



038-01-201	Basic Bain Coaxial System (1.6m) 22mm lightweight, low compliance corrugated tube with 22mm M swivel connector + low profile elbow without serrated connector	20
038-01-201Ag	As above with Argentic Tubing	 20

### Basic Bain Coaxial System 1.6m



038-01-200B	Basic Bain Coaxial System (1.6m) with limb 22mm lightweight, flexible corrugated tube with 22mm M / 15mm F swivel connector + 2L Reservoir Bag + low profile elbow + two spare M/M connectors + 1.6m limb	20
038-01-200BAg	As above with Argentic Tubing	 20

## Adult Anaesthetic Systems

### Basic Parallel



038-01-100	Basic Parallel (1.6m) 22mm lightweight, extra flexible corrugated tube with parallel Y piece and 22mm F connectors + spare M/M connector		20
038-01-100Ag	As above with Argentic Tubing	Ag	20
038-01-105	Basic Parallel (2.4m) 22mm lightweight, extra flexible corrugated tube with parallel Y piece and 22mm F connectors + spare M/M connector		20
038-01-105Ag	As above with Argentic Tubing	Ag	20

### Basic Parallel with Limb



038-01-120	Basic Parallel (1.6m) with limb 22mm lightweight, extra flexible corrugated tube with parallel Y piece and 22mm F connectors + 0.8m F/F limb + spare M/M connector		20
038-01-120Ag	As above with Argentic Tubing	Ag	20
038-01-125	Basic Parallel (2.4m) with limb 22mm lightweight, extra flexible corrugated tube with parallel Y piece and 22mm F connectors + 0.8m F/F limb + spare M/M connector		20
038-01-125Ag	As above with Argentic Tubing	Ag	20

### Basic Parallel with Swivel Y Piece

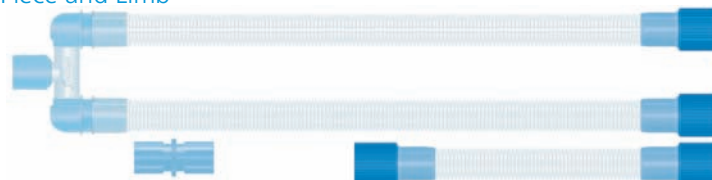



038-01-102	Basic Parallel with Swivel Y Piece (1.6m) 22mm lightweight, extra flexible corrugated tube with Swivel Y piece and 22mm F connectors + spare M/M connector		20
038-01-102Ag	As above with Argentic Tubing	Ag	20
038-01-103	Basic Parallel with Swivel Y Piece (2.4m) 22mm lightweight, extra flexible corrugated tube with Swivel Y piece and 22mm F connectors + spare M/M connector		20
038-01-103Ag	As above with Argentic Tubing	Ag	20



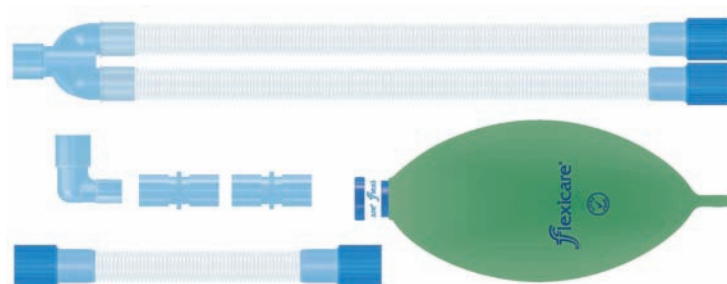
## Adult Anaesthetic Systems


### Basic Parallel with Swivel Y Piece and Limb



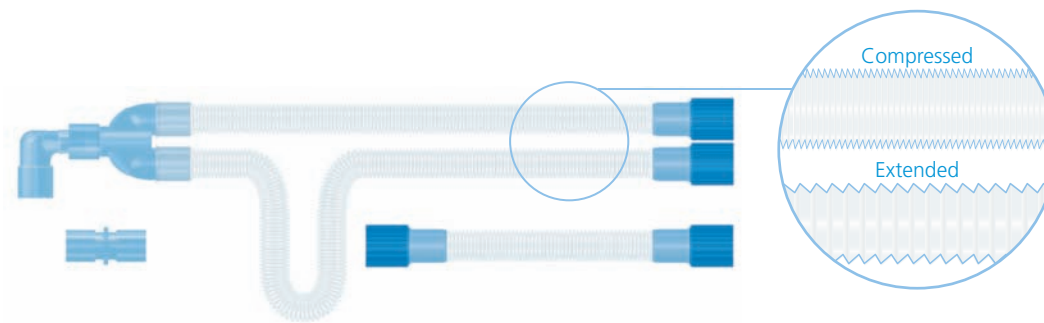
038-01-122	Basic Parallel (1.6m) with Swivel Y Piece + limb 22mm lightweight, extra flexible corrugated tube with Swivel Y piece and 22mm F connectors + 0.8m F/F limb + spare M/M connector	20
038-01-122Ag	As above with Argentic Tubing	 20


### Basic Parallel with Limb, Elbow Reservoir Bag and Connectors



038-01-110	Basic Parallel (1.6m) 22mm lightweight, extra flexible corrugated tube with parallel Y piece and 22mm F connectors + 0.8m F/F limb + Low Profile Elbow + 2L Reservoir Bag + spare M/M connector	20
038-01-110Ag	As above with Argentic Tubing	 20
038-01-110LX	As 038-01-110 with 2.4m length	
038-01-110/701	Basic Parallel (1.6m) with 3m Gas Sampling Line 22mm lightweight, extra flexible corrugated tube with parallel Y piece and 22mm F connectors + 0.8m F/F limb + Low Profile Elbow + 2L Reservoir Bag + spare M/M connector	20
038-01-110LXXY	Basic Parallel (4.5m) 22mm lightweight, extra flexible corrugated tube with parallel Y piece and 22mm F connectors + 1.6m F/F limb + Low Profile Elbow + 2L Reservoir Bag + spare M/M connector	10

### Flexi-Lock Parallel



038-01-106	Flexi-Lock Parallel (1.6m) Flexible expandable tube with parallel Y piece and 22mm F connectors + 0.8m F/F limb + spare M/M connector + Low Profile Elbow	20
038-01-106Ag	As above with Argentic Tubing	 20

## Adult Anaesthetic Systems

### Basic Smooth Bore



038-01-104	Adult Smooth Bore Circuit (1.6m) 22mm lightweight smooth bore tubing with parallel Y piece and flexible 22mm F connectors + spare 22mm M/M connector	20
038-01-107	Adult Smooth Bore Circuit (2.4m) 22mm lightweight smooth bore tubing with parallel Y piece and flexible 22mm F connectors + spare 22mm M/M connector	20

### Basic Smooth Bore with Limb



038-01-124	Adult Smooth Bore Circuit (1.6m) 22mm lightweight smooth bore tubing with parallel Y piece and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector	20
038-01-127	Adult Smooth Bore Circuit with limb (2.4m) 22mm lightweight smooth bore tubing with parallel Y piece and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector	20

### Basic Smooth Bore and Detachable Y Piece



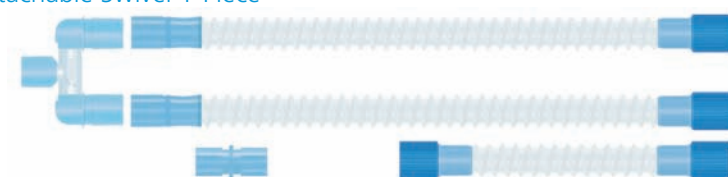
038-01-108	Adult Smooth Bore Circuit (1.6m) 22mm lightweight smooth bore tubing with detachable parallel Y piece and flexible 22mm F connectors + spare 22mm M/M connector	20
038-01-109	Adult Smooth Bore Circuit (2.4m) 22mm lightweight smooth bore tubing with detachable parallel Y piece and flexible 22mm F connectors + spare 22mm M/M connector	20

### Basic Smooth Bore with Limb and Detachable Y Piece



038-01-128	Adult Smooth Bore Circuit (1.6m) with limb 22mm lightweight smooth bore tubing with detachable parallel Y piece and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector	20
038-01-129	Adult Smooth Bore Circuit (2.4m) with limb 22mm lightweight smooth bore tubing with detachable parallel Y piece and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector	20

### Basic Smooth Bore with Detachable Swivel Y Piece



038-01-123	Adult Smooth Bore Circuit (1.6m) with limb 22mm lightweight smooth bore tubing with detachable parallel swivel Y piece and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector	20
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## Adult Anaesthetic Systems

### Ventiflow Systems

Ventiflow is a coaxial (two tubes in one) breathing system ideal for use within both theatres and ICU and is well suited to low flow anaesthesia and both spontaneous and ventilated patients. Ventiflow may be used in either the open or closed configuration and as such it offers incredible flexibility. All components are included with the circuit to set up in either way. Ventiflow is available in over ten variations with the options of both with and without APL valve, with integral monitoring line (no trailing sample lines from patient to monitor) and lengths of up to 3.2m for specialist applications.

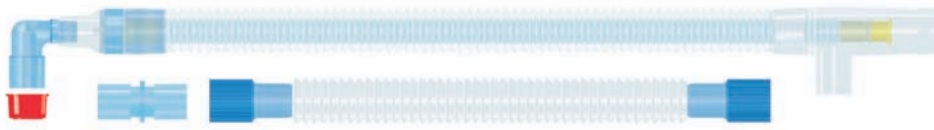
**Patient Monitoring** - Optional integral monitoring line collects end tidal CO<sub>2</sub> from the tip of the patient end connector. This provides for accurate gas sampling, whilst the integrated line prevents the possibility of becoming caught and promotes an uncluttered working environment.



**Swivel Patient End Connector** - Reduces the risk of the circuit and optional integrated monitoring line becoming twisted. This minimises patient drag and the risks of disconnection of the circuit from the anaesthetic machine or ventilator.

**Supplied with Inner Lumen Test Key** - Allows for the isolation of the fresh gas tube to leak test the circuit.





### Ventiflow



038-01-500	Ventiflow (1.6m) Circuit with Flexi-lock expandable limb + spare 22mm M/M connector + Elbow	20
038-01-500Ag	As above with Argentic Tubing	 20
038-01-505	Ventiflow (2.4m) Circuit with Flexi-lock expandable limb + spare 22mm M/M connector + Elbow	20
038-01-505Ag	As above with Argentic Tubing	 20

### Ventiflow Basic



038-01-501	Ventiflow Basic (1.6m) Circuit with 2L Reservoir Bag, Flexi-lock expandable limb + spare 22mm M/M connector + Elbow	20
038-01-501Ag	As above with Argentic Tubing	 20
038-01-506	Ventiflow Basic (2.4m) Circuit with 2L Reservoir Bag, Flexi-lock expandable limb + spare 22mm M/M connector + Elbow	20
038-01-506Ag	As above with Argentic Tubing	 20

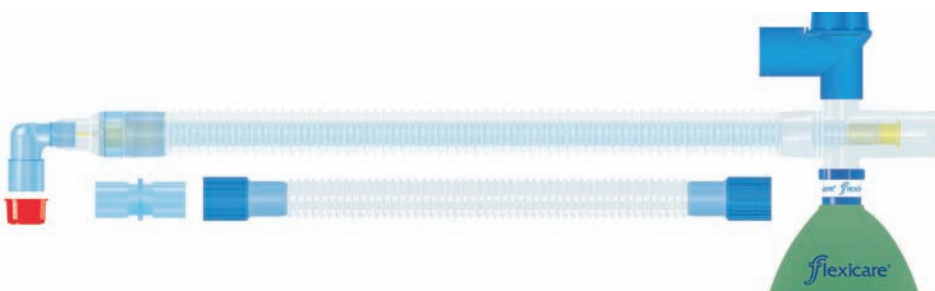
## Adult Anaesthetic Systems

### Ventiflow Standard



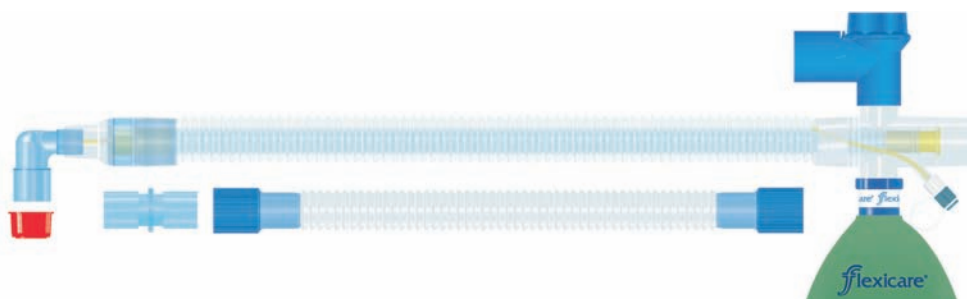
038-01-510	Ventiflow Standard (1.6m) Circuit with Monitoring Line, Flexi-lock expandable limb + spare 22mm M/M connector + Elbow	20
038-01-510Ag	As above with Argentic Tubing	Ag 20
038-01-515	Ventiflow Standard (2.4m) Circuit with Monitoring Line, Flexi-lock expandable limb + spare 22mm M/M connector + Elbow	20
038-01-515Ag	As above with Argentic Tubing	Ag 20

### Ventiflow Plus



038-01-520	Ventiflow Plus (1.6m) Circuit with Adult APL Valve, 2L Reservoir Bag, Flexi-lock expandable limb + spare 22mm M/M connector + Elbow	20
038-01-520Ag	As above with Argentic Tubing	Ag 20
038-01-525	Ventiflow Plus (2.4m) Circuit with Adult APL Valve, 2L Reservoir Bag, Flexi-lock expandable limb + spare 22mm M/M connector + Elbow	20
038-01-525Ag	As above with Argentic Tubing	Ag 20

### Ventiflow Max

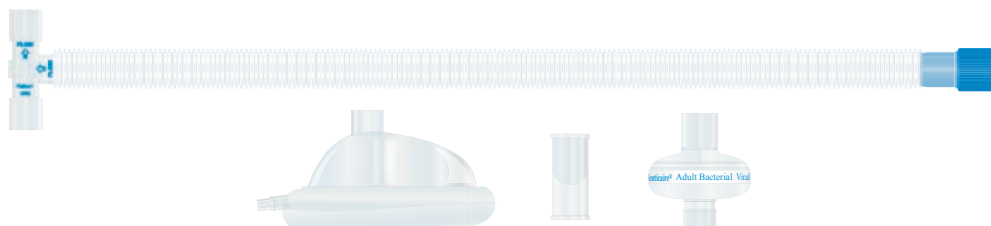


038-01-530	Ventiflow Max (1.6m) Circuit with Adult APL Valve, 2L Reservoir Bag, integral Monitoring Line and Flexi-lock expandable limb + spare 22mm M/M connector + Elbow	20
038-01-530Ag	As above with Argentic Tubing	Ag 20
038-01-535	Ventiflow Max (2.4m) Circuit with Adult APL Valve, 2L Reservoir Bag, integral Monitoring Line and Flexi-lock expandable limb + spare 22mm M/M connector + Elbow	20
038-01-535Ag	As above with Argentic Tubing	Ag 20

## Adult and Paediatric Systems

### Entonox Systems

Nitrous Oxide gases have been known to have sedative and analgesic effects for well over two hundred years. In the medical application Entonox® is a gas comprising of equal parts of Nitrous Oxide and Oxygen, most commonly used during childbirth. The gas is administered via the entonox circuit and inhaled by the patient using either a face mask or a mouthpiece. An incorporated demand valve is regulated by the patients inspiration pattern allowing gases to be controlled and not lost to the ambient surroundings.



#### Lightweight

22mm Corrugated tube will retain it's shape and resist crushing. Flow is still maintained even when twisted through 180°. The shallow corrugations minimise flow resistance and turbulence.

#### Patient Choice

The entonox circuits are available for use with a mouthpiece or mask providing patient choice.

#### Entonox T-Piece

The T-Piece incorporates 2 non-return valves to allow for inspired gases to be delivered through the system and prevent expired gases re-entering the circuit.

#### Aeroplane Flow Indicator

The aeroplane flow indicator attaches to the one way valve to encourage young patients during emergency procedures.



#### Patient Controlled during child birth

Patients should inspire the Entonox gas as soon as a contraction begins. The level of pain control that is built up in the blood stream will reach maximum effectiveness between 45-50 seconds after patients begin breathing. Using Entonox gas does not prevent patients being given supplemental or alternative pain relief drugs.

### Entonox Circuit with Mouthpiece



038-01-176

Entonox Circuit with Mouth Piece (2.4m)  
Low resistance corrugated tube  
with 22mm F connector, one way valve and mouth piece

20

### Entonox Circuit with Mask



038-01-177

Entonox Circuit with Mask (2.4m)  
Low resistance 22mm corrugated tube  
with 22mm F connector, one way valve and face mask

20

038-01-178

Entonox Circuit with Mouth Piece and Mask (2.4m)  
Low resistance 22mm corrugated tube with 22mm F connector,  
one way valve, mouth piece and face mask

20

Entonox is a Registered Trademark of BOC Gases



## Adult Anaesthetic Systems

### Entonox Circuit with Scavenging Tube



038-01-173

Entonox Circuit (2.4m)  
Low resistance corrugated tube with 22mm F connector, one way valve,  
and detachable scavenging tube with connector

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### Entonox Mouthpiece



032-10-066

Entonox Mouth Piece

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### Bacterial Viral Filter with Entonox Mouthpiece

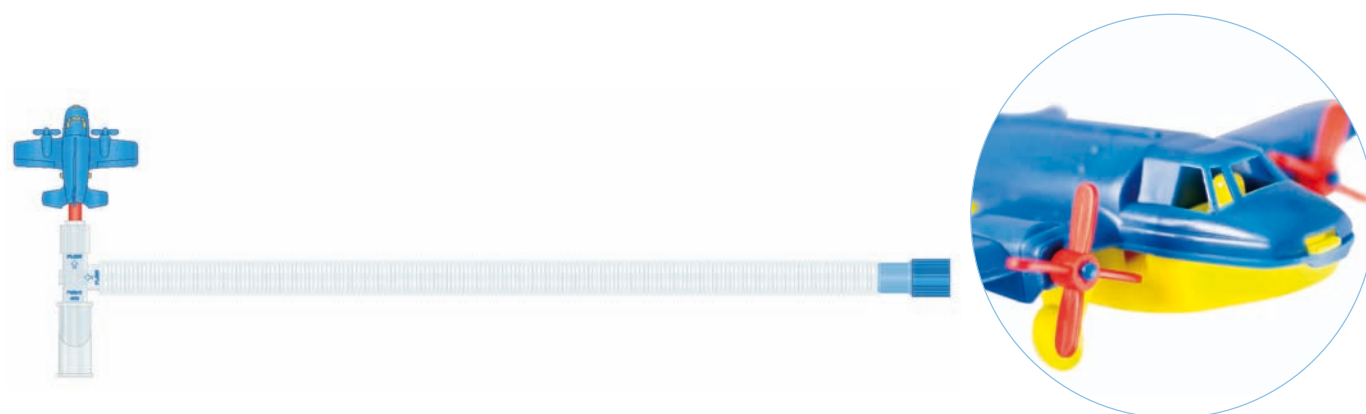


038-41-369

Bacterial Viral Filter with Mouthpiece for Entonox

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### Paediatric Entonox Circuit with Aeroplane Flow Indicator



038-01-175

Entonox Circuit with Aeroplane Flow Indicator (2.4m)  
Low resistance 22mm corrugated tube with 22mm F connector,  
one way valve with Aeroplane Indicator and mouth piece

20



## Basic Parallel Circle System



038-02-165

Basic Parallel (1.6m)  
Low resistance 15mm corrugated tube, parallel Y piece,  
22mm F connectors + spare 22mm M/M connector

20

## Flexi Lock Parallel Circle System



038-02-180

Flexi-Lock Parallel (1.5m)  
Expandable 15mm corrugated tube, parallel Y piece,  
22mm F connectors + spare 22mm M/M connector

20

## Smooth Bore Systems

### Smooth Bore Circle System



038-02-166

Paediatric Smooth Bore Circuit (1.5m)  
15mm lightweight smooth bore tubing with parallel Y piece  
and flexible 22mm F connectors + spare 22mm M/M connector

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### Smooth Bore Circle System



038-02-162

Paediatric Smooth Bore Circuit (1.5m)  
15mm lightweight smooth bore tubing with bifurcated Y piece with monitoring ports  
and flexible 22mm F connectors + spare 22mm M/M connector

20

### Smooth Bore Circle System with Detachable Y Piece



038-02-163

Paediatric Smooth Bore Circuit (1.5m)  
15mm lightweight smooth bore tubing with detachable Y piece  
and flexible 22mm F connectors + spare 22mm M/M connector

20



### Smooth Bore Circle System with Y Piece and monitoring ports



038-02-164

Paediatric Smooth Bore Circuit (1.5m)  
15mm lightweight smooth bore tubing with low dead space Y piece +  
Monitoring Ports and flexible 22mm F connectors + spare 22mm M/M connector

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### Mapleson C Systems

#### Mapleson C Paediatric Direct Bagging System (1.6m)



038-02-270

Mapleson C Direct System (1.6m)  
10mm corrugated tube with 0.5L reservoir bag and paediatric  
APL valve with spare 15F/6-9mm connector

20

#### Mapleson C Paediatric Bagging System (1.6m)



038-02-271

Mapleson C Paediatric Bagging System (1.6m)  
10mm corrugated tube with 0.5L reservoir bag and paediatric  
APL valve with spare 15F/6-9mm connector

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#### Mapleson C Direct System (1.6m)



038-02-272

Mapleson C Direct System (1.6m)  
10mm corrugated tube with 1L reservoir bag and paediatric  
APL valve with spare 15F/6-9mm connector

20



## Mapleson F Systems

### Mapleson F Ayres T-Piece with APL Valve (1.6m)



038-02-273	Mapleson F Ayres T-Piece with APL Valve (1.6m) 10mm corrugated tube fresh gas line with 15mm M connector and spare 15F/6-9mm flexible connector with 0.5L closed tail reservoir bag and paediatric APL valve	20
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### Mapleson F Infant T-Piece (1.6m)



038-02-191	Mapleson F Infant T-Piece (1.6m) 10mm corrugated tube fresh gas line with 15mm M connector and spare 15F/6-9mm flexible connector with 0.5L open tail reservoir bag	20
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### Mapleson F Ayres T-Piece (1.6m)



038-02-196	Mapleson F Ayres T-Piece (1.6m) 10mm corrugated tube, fresh gas line with 22mm F connector with 0.5L open tail reservoir bag and double swivel elbow	20
038-02-196C	Mapleson F Ayres T-Piece (1.6m) 10mm corrugated tube, fresh gas line with 22mm F connector with 0.5L open tail reservoir bag and double swivel elbow + monitoring line	20

### Mapleson F Infant T-Piece (2.1m)



038-02-190	Mapleson F Infant T-Piece (2.1m) Star lumen tubing with 22mm F spare connector, 0.5L open tail reservoir bag	20
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### Mapleson F Ayres T-Piece (2.1m)



038-02-195	Mapleson F Ayres T-Piece (2.1m) Star lumen tube with 22mm F spare connector, 0.5L open tail reservoir bag and double swivel elbow with elastomeric cap	20
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### Mapleson F Ayres T-Piece (2.1m)



038-02-198	Mapleson F Ayres T-Piece (2.1m) Star lumen tube with 22mm F spare connector, 1L reservoir bag and double swivel elbow with elastomeric cap	20
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## Catheter Mounts

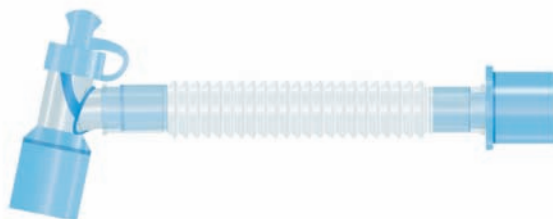
A wide range of catheter mounts are available with either Standard, Flexi-Lock or Smooth Bore tubing with a variety of fixed or swivel elbows and connectors offering total flexibility.

### Total Flexibility

15mm standard or Flexi-Lock corrugated tubing allows ultimate flexibility during operative and clinical procedures when patient manoeuvring may be required.

### Maximum Choice

Wide range of Fixed or Swivel elbows with or without ports providing total flexibility for patient airway management.



### Secure Fitting

22mm F 15mm M end connectors allow for secure fitting to all Y Pieces meeting the approved standards.

## Standard 15mm Tubing

### Standard 15mm Tube Catheter Mount



038-61-301

Standard 15mm Tube Catheter Mount 22mm F and 15mm F Connectors

50

### Standard 15mm Tube Catheter Mount with Low Profile Elbow



038-61-302

Standard 15mm Tube Catheter Mount with Low Profile Elbow  
22mm F and 15mm F/22mm M Connectors

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### Standard 15mm Tube Catheter Mount with Luer Lock Elbow



038-61-303

Standard 15mm Tube Catheter Mount with Luer Lock Elbow  
22mm F and 15mm F/22mm M Connectors

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### Standard 15mm Tube Catheter Mount with Low Profile Elbow and Elastomeric Cap



038-61-304

Standard 15mm Tube Catheter Mount with Low Profile Elbow  
and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors

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### Standard 15mm Tube Catheter Mount with Double Swivel Elbow



038-61-305

Standard 15mm Tube Catheter Mount with Double Swivel Elbow  
22mm F and 15mm F/22mm M Connectors

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### Standard 15mm Tube Catheter Mount with Double Swivel Elbow and Elastomeric Cap



038-61-306

Standard 15mm Tube Catheter Mount with Double Swivel Elbow  
and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors

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# Catheter Mounts

## Standard 15mm Tubing with Detachable Catheter Mounts

### Standard 15mm Tube Catheter Mount with Detachable Low Profile Elbow



038-61-301/640	Standard 15mm Tube Catheter Mount with Detachable Low Profile Elbow 22mm F and 15mm F/22mm M Connectors	50
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### Standard 15mm Tube Catheter Mount with Detachable Luer Lock Elbow



038-61-301/641	Standard 15mm Tube Catheter Mount with Detachable Luer Lock Elbow 22mm F and 15mm F/22mm M Connectors	50
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### Standard 15mm Tube Catheter Mount with Detachable Low Profile Elbow and Elastomeric Cap



038-61-301/642	Standard 15mm Tube Catheter Mount with Detachable Low Profile Elbow and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors	50
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### Standard 15mm Tube Catheter Mount with Detachable Double Swivel Elbow



038-61-301/643	Standard 15mm Tube Catheter Mount with Detachable Double Swivel Elbow 22mm F and 15mm F/22mm M Connectors	50
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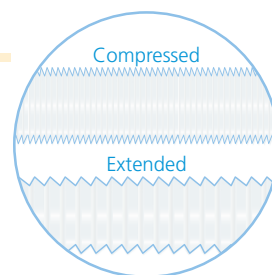
### Standard 15mm Tube Catheter Mount with Detachable Double Swivel Elbow and Elastomeric Cap



038-61-301/645	Standard 15mm Tube Catheter Mount with Detachable Double Swivel Elbow and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors	50
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## Catheter Mounts

### Flexi-Lock Tubing



#### Flexi-Lock Tube Catheter Mount 15mm



038-61-310

Flexi-Lock Tube Catheter Mount 15mm M and 15mm F Connectors

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#### Flexi-Lock Tube Catheter Mount 22mm



038-61-311

Flexi-Lock Tube Catheter Mount 22mm F and 15mm F Connectors

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#### Flexi-Lock Catheter Mount with Low Profile Elbow



038-61-312

Flexi-Lock Catheter Mount with Low Profile Elbow  
22mm F and 15mm F/22mm M Connectors

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#### Flexi-Lock Catheter Mount with Luer Lock Elbow



038-61-313

Flexi-Lock Catheter Mount with Luer Lock Elbow  
22mm F and 15mm F/22mm M Connectors

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#### Flexi-Lock Catheter Mount with Elbow and Elastomeric Cap



038-61-314

Flexi-Lock Catheter Mount with Elbow and Elastomeric Cap  
22mm F and 15mm F/22mm M Connectors

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#### Flexi-Lock Catheter Mount with Double Swivel Elbow



038-61-315

Flexi-Lock Catheter Mount with Double Swivel Elbow  
22mm F and 15mm F/22mm M Connectors

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#### Flexi-Lock Catheter Mount with Double Swivel Elbow and Elastomeric Cap



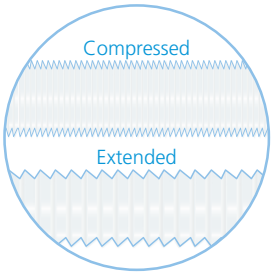
038-61-316

Flexi-Lock Catheter Mount with Double Swivel Elbow  
and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors

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# Catheter Mounts

## Flexilock Tubing with Detachable Catheter Mounts



### Flexi-Lock Catheter Mount with Detachable Low Profile Elbow



038-61-310/640	Flexi-Lock Catheter Mount with Detachable Low Profile Elbow 22mm F and 15mm F/22mm M Connectors	50
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### Flexi-Lock Catheter Mount with Detachable Luer Lock Elbow



038-61-310/641	Flexi-Lock Catheter Mount with Detachable Luer Lock Elbow 22mm F and 15mm F/22mm M Connectors	50
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### Flexi-Lock Catheter Mount with Detachable Elbow and Elastomeric Cap



038-61-310/642	Flexi-Lock Catheter Mount with Detachable Elbow and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors	50
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### Flexi-Lock Catheter Mount with Detachable Double Swivel Elbow



038-61-310/643	Flexi-Lock Catheter Mount with Detachable Double Swivel Elbow 22mm F and 15mm F/22mm M Connectors	50
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### Flexi-Lock Catheter Mount with Detachable Double Swivel Elbow and Elastomeric Cap



038-61-310/645	Flexi-Lock Catheter Mount with Detachable Double Swivel Elbow and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors	50
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## Catheter Mounts

### Smooth Bore Tubing

#### Smooth Bore Catheter Mount



038-61-321

Smooth Bore Catheter Mount 22mm F and 15mm F Connectors

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#### Smooth Bore Catheter Mount with Low Profile Elbow



038-61-322

Smooth Bore Catheter Mount with Low Profile Elbow  
22mm F and 15mm F/22mm M Connectors

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#### Smooth Bore Catheter Mount with Luer Lock Elbow



038-61-323

Smooth Bore Catheter Mount with Luer Lock Elbow  
22mm F and 15mm F/22mm M Connectors

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#### Smooth Bore Catheter Mount with Elbow and Elastomeric Cap



038-61-324

Smooth Bore Catheter Mount with Elbow  
and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors

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#### Smooth Bore Catheter Mount with Double Swivel Elbow



038-61-325

Smooth Bore Catheter Mount with Double Swivel Elbow  
22mm F and 15mm F/22mm M Connectors

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#### Smooth Bore Catheter Mount with Double Swivel Elbow and Elastomeric Cap



038-61-326

Smooth Bore Catheter Mount with Double Swivel Elbow  
and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors

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## Anaesthetic Face Masks

### Scented Anaesthetic Face Masks

Some patients receiving anaesthesia, particularly children, can find the experience unpleasant. The Flexicare range of scented anaesthetic face masks are offered in three aromas Lemon, Strawberry and Vanilla to help overcome this problem.

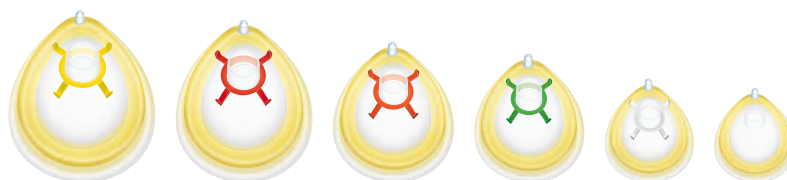
**Inflatable Cushion** - The seal can be enhanced by inflating/deflating the cushion to suit the patient's anatomical contour.

**Colour Coding** - The masks are colour coded to identify the aroma and mask size

**Ease of Observation** - Clear face piece allows visual observation of the patient status.

**Soft Cushion** - Smooth material used for the cushion allows for a tight seal while providing patient comfort.

### Lemon Scented Inflatable Disposable Anaesthetic Face Masks



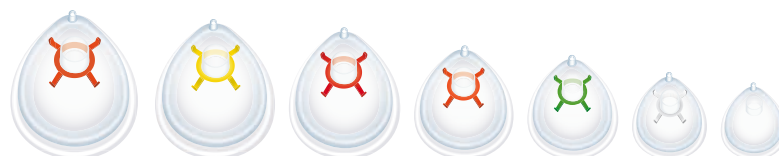
038-51-400SFL	Large Adult	Lemon Scented Inflatable Disposable Face Mask	Size 5	5	50
038-51-410SFL	Adult	Lemon Scented Inflatable Disposable Face Mask	Size 4	4	50
038-52-415SFL	Large Child	Lemon Scented Inflatable Disposable Face Mask	Size 3	3	50
038-52-420SFL	Medium Child	Lemon Scented Inflatable Disposable Face Mask	Size 2	2	50
038-52-430SFL	Small Child	Lemon Scented Inflatable Disposable Face Mask	Size 1	1	50
038-53-440SFL	Neonatal	Lemon Scented Inflatable Disposable Face Mask	Size 0		50

### Strawberry Scented Inflatable Disposable Anaesthetic Face Masks



038-52-415SFS	Large Child	Strawberry Scented Inflatable Disposable Face Mask	Size 3	3	50
038-52-420SFS	Medium Child	Strawberry Scented Inflatable Disposable Face Mask	Size 2	2	50
038-52-430SFS	Small Child	Strawberry Scented Inflatable Disposable Face Mask	Size 1	1	50
038-53-440SFS	Neonatal	Strawberry Scented Inflatable Disposable Face Mask	Size 0		50

### Vanilla Scented Inflatable Disposable Anaesthetic Face Masks



038-51-400SFP	X Large Adult	Vanilla Scented Inflatable Disposable Face Mask	Size 6	6	50
038-51-400SFP	Large Adult	Vanilla Scented Inflatable Disposable Face Mask	Size 5	5	50
038-51-410SFP	Adult	Vanilla Scented Inflatable Disposable Face Mask	Size 4	4	50
038-52-415SFP	Large Child	Vanilla Scented Inflatable Disposable Face Mask	Size 3	3	50
038-52-420SFP	Medium Child	Vanilla Scented Inflatable Disposable Face Mask	Size 2	2	50
038-52-430SFP	Small Child	Vanilla Scented Inflatable Disposable Face Mask	Size 1	1	50
038-53-440SFP	Neonatal	Vanilla Scented Inflatable Disposable Face Mask	Size 0		50



## Anaesthetic Face Masks

### Inflatable Disposable Anaesthetic Face Masks

The pre-filled disposable anaesthetic face mask is available in 6 sizes from neonatal to large adult, with individually colour coded hooks for ease of identification. Compatible with all standard catheter mounts and breathing systems with 22mm & 15mm connectors.



038-51-400	Large Adult	Pre-Filled Inflatable Disposable Face Mask	Size 5	5	50
038-51-410	Adult	Pre-Filled Inflatable Disposable Face Mask	Size 4	4	50
038-52-415	Large Child	Pre-Filled Inflatable Disposable Face Mask	Size 3	3	50
038-52-420	Medium Child	Pre-Filled Inflatable Disposable Face Mask	Size 2	2	50
038-52-430	Small Child	Pre-Filled Inflatable Disposable Face Mask	Size 1	1	50
038-53-440	Neonatal	Pre-Filled Inflatable Disposable Face Mask	Size 0		50

### Silicone Reusable Anaesthetic Face Masks

The reusable silicone anaesthetic face masks are fully autoclavable up to 50 times. The moulded texture of the rim ensures maximum patient comfort and a tight seal, while the transparent face piece allows patient monitoring at all times. 22mm and 15mm connectors ensures compatibility with all standard catheter mounts and breathing systems.



038-51-400SIL	Large Adult	Silicone Reusable Face Mask	Size 5	5	50
038-51-410SIL	Adult	Silicone Reusable Face Mask	Size 4	4	50
038-52-415SIL	Large Child	Silicone Reusable Face Mask	Size 3	3	50
038-52-420SIL	Medium Child	Silicone Reusable Face Mask	Size 2	2	50
038-52-430SIL	Small Child	Silicone Reusable Face Mask	Size 1	1	50
038-53-440SIL	Neonatal	Silicone Reusable Face Mask	Size 0		50

### Anaesthetic Face Masks Packs



038-51-400/A	Large Adult	Face Mask, Elbow, Filter HME + port	Size 5	5	50
038-51-410/A	Adult	Face Mask, Elbow, Filter HME + port	Size 4	4	50
038-52-415/A	Large Child	Face Mask, Elbow, Filter HME + port	Size 3	3	50
038-52-420/A	Medium Child	Face Mask, Elbow, Filter HME + port	Size 2	2	50
038-61-355	Large Adult	Face Mask, Filter, Detachable Elbow + Catheter Mount	Size 5	5	50
038-61-354	Adult	Face Mask, Filter, Detachable Elbow + Catheter Mount	Size 4	4	50
038-61-353	Large Child	Face Mask, Filter, Detachable Elbow + Catheter Mount	Size 3	3	50
038-61-352	Medium Child	Face Mask, Filter, Detachable Elbow + Catheter Mount	Size 2	2	50
038-61-351	Small Child	Face Mask, Filter, Detachable Elbow + Catheter Mount	Size 1	1	50

## Soda Lime Absorbents

### VentiSorb

VentiSorb® is a carbon dioxide absorbent with excellent efficiency and low resistance for use within closed circle systems.



VentiSorb is a medical grade soda lime prepared in granulated form. The individual granules are specifically non-uniform in shape and size so that CO<sub>2</sub> filtration is maximized without restricting airflow. VentiSorb offers excellent efficiency in absorbing carbon dioxide and other acidic contamination from gas stream while minimizing dust particle formation. The chemical attributes of the active compound is naturally porous and hard which acts as a heat and moisture exchange.

The use of closed circuit systems within the operating room has increased dramatically over the last few years in that low flow capability allows for use on paediatrics as well as adults. The use of VentiSorb in closed systems offers the following benefits:

- Increased Moisture Output
- Minimal Anaesthetic Agent Degradation
- Improved Heat Retention

### Operator Benefits

The benefits of using closed circle systems for their low flow anaesthesia delivery capabilities extends beyond patient benefits. The implication for the operating department being that anaesthetic gases used to induce patients does not unnecessarily pollute the operating room.

### Colour Change Indicator

When exhausted VentiSorb will change colour indicating that the soda lime needs to be changed. This should be used alongside a CO<sub>2</sub> monitor to confirm compound exhaustion.



Pink → White      White → Violet

VentiSorb is available in two different colour change indicators both conforming to international standards. They are either from Pink to White or from White to Violet. Both give clear visual indications as to the extent of the CO<sub>2</sub> absorption and the life extent of the soda lime.

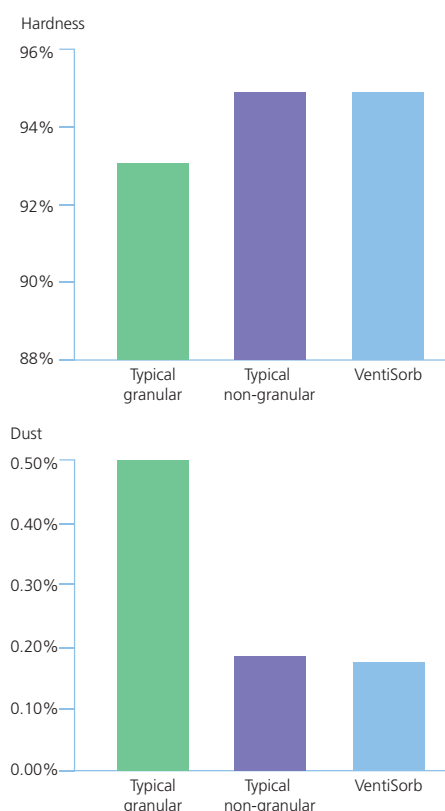
### Particle Packing

VentiSorb granules range from 2.5 - 5.0 in size, allowing for a tightly packed layered canister increasing the efficiency of the CO<sub>2</sub> absorption without significantly increasing resistance.



### Physical Characteristics

The graphs below demonstrates VentiSorb's physical characteristics in comparison to other Soda Lime absorbers.



SPECIFICATION	GRADE	PARTICLE SIZE	CO <sub>2</sub> CAPACITY	HARDNESS
US Pharmacopoeia	USP	Mesh: 4-8    Particles: 2.5mm-5.0mm	19wt% minimum	>75
038-05-601	1.3kg VentiSorb supplied in resealable bags. Pink to White			12
038-05-602	4.5kg VentiSorb supplied in resealable bags. Pink to White			2
038-05-603	1.3kg VentiSorb supplied in resealable bags. White to Violet			12
038-05-604	4.5kg VentiSorb supplied in resealable bags. White to Violet			2

# ANAESTHESIA COMPONENTS

## Connectors, Tubing, Monitoring Lines & Accessories

A wide range of anaesthesia components are available for clinicians to customise their individual circuits.




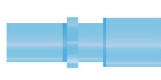





### Patient Connectors & Accessories

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Y-Pieces	63
Corrugated Tubing	63
Monitoring Lines	64
Reservoir Bags	64
Water Traps	64







## Patient Connectors and Accessories





### Connectors

				
010-610 100 22mm M / F Serrated Connector	010-611 100 22mm M / 22mm M / 15mm F Connector	010-612 100 22mm F / 15mm M Connector	010-613 100 15mm M / M Connector	010-614 100 15mm M / F Connector
				
010-617 50 22mm / 30F Scavenging Connector	010-601 50 22mm M / F with Barbed Right Angled Connector	010-602 50 22mm M / F with Luer Right Angled Port	010-603 50 22mm F / F with Luer Right Angled Port	

### Washington T-Pieces

			
010-604 50 22F / F Connector with Port and Plug	010-605 50 22mm M / F Connector with Port and Plug	010-638 50 15mm M / 22mm M / 15mm F with Luer Right Angled Port	010-639 50 15mm M / 22mm M / 15mm F, Barbed Right Angled Connector

### T-Pieces




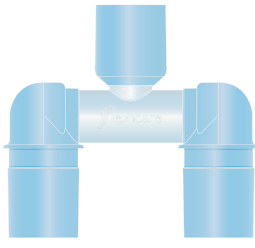




			
010-630 50 22M / M / M T-Piece	010-631 50 22mm M / M / F T-Piece	010-633 50 22mm M / M / M T-Piece with Port	010-634 50 22mm M / M / F T-Piece with Port

### In-Line Valve







032-10-120 10 In-Line Valve for use with MaxiNeb Nebuliser

## Patient Connectors and Accessories






### Y-Pieces

			
010-620 50 22mm Plain Parallel Y-Piece	010-621 50 22mm Plain Parallel Y-Piece with Monitoring Ports	010-622 50 22mm Parallel Y-Piece with CO <sub>2</sub> Luer Lock Port	010-623 50 22mm Swivel Y-Piece
			
010-623LS 50 22mm Swivel Y-Piece with LuerSafe connector	020-620 50 15mm Plain Parallel Y-Piece	020-621 50 15mm Y-Piece with Monitoring Ports	020-622 50 15mm Parallel Y-Piece with CO <sub>2</sub> Luer Lock Port

### Elbows

				
010-640 50 Elbow Low Profile 22M / 15F	010-640LS 50 Elbow Low Profile 22M / 15F with LuerSafe Connector	010-641 50 Elbow with Luer Lock Port 22M / 15F	010-642 50 Elbow with Elastomeric Cap for Suction 22M / 15F	010-643 50 Double Swivel Elbow 22M / 15F




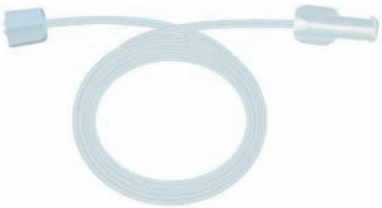

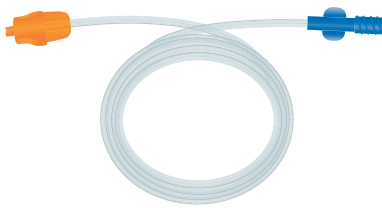
### Corrugated Tubing

				
010-645 50 Double Swivel Elbow with Suction Cap 22M / 15F	038-01-225 50m Roll 22mm Corrugated tube. 45cm repeat in dispensing box. 50m	038-01-226 50m Roll 22mm Corrugated tube. 45cm repeat in dispensing box. Low compliance	038-01-227 50m Roll Blue 22mm Corrugated tube for scavenging. 45cm repeat in dispensing box	038-02-225 50m Roll 15mm Corrugated tube. 45cm repeat in dispensing box




## Patient Connectors and Accessories

### Monitoring Lines

		
010-700 Monitoring line with M / M Connectors - 2m Tubing	010-700X Monitoring line with M / M Connectors - 3m Tubing	010-705 Monitoring line with F / F Connectors - 2m Tubing
25	25	25
		
010-710 Monitoring line with M / F Connectors - 2m Tubing	010-720 LuerSafe Monitoring line M / M Connectors - 2m Tubing	010-725 LuerSafe Monitoring line M / F Connectors - 2m Tubing
25	10	10

### Reservoir Bags (Latex Free)

	038-81-830NL	3 Litre Reservoir Bag with 22mm Female Connector	10
	038-81-820NL	2 Litre Reservoir Bag with 22mm Female Connector	10
	038-82-810NL	1 Litre Reservoir Bag with 22mm Female Connector	10
	038-83-805NL	0.5 Litre Reservoir Bag with 22mm Female Connector - Closed Tail	10
	038-82-805NL	0.5 Litre Reservoir Bag with 22mm Female Connector - Open Tail	10

### Water Traps

		
010-650 Adult Self Sealing Water Trap	020-650 Paediatric Self Sealing Water Trap	030-650 Neonatal Self Sealing Water Trap
10	10	10

# CRITICAL CARE

## ICU Ventilator Systems, Humidified Ventilator Systems and Non Invasive Ventilation Breathing Systems

A complete range of ICU circuits, active humidification circuits, CPAP and BiPAP.®

### Critical Care

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### ICU Ventilator Systems

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BiPAP is a registered trademark of Resperonics

## ICU Ventilator Systems

### ICU Breathing Systems

The range are specifically designed with low compliance tubes for patients requiring ventilation in Intensive Care Units. The range of circuits and accessories offer a full range to meet the demands of patients from standard ventilator circuits to heated wire circuits and humidification chambers. A wide variety of ITU Breathing Systems are offered to meet individual requirements.

#### Easy to Manage

The parallel Y piece allows for a greater control of the system. The double walled, 22mm M/15mm F patient end connection allows for ease of fitting to Catheter Mounts, Endotracheal Tubes, Laryngeal Masks, Face Masks or Elbows.

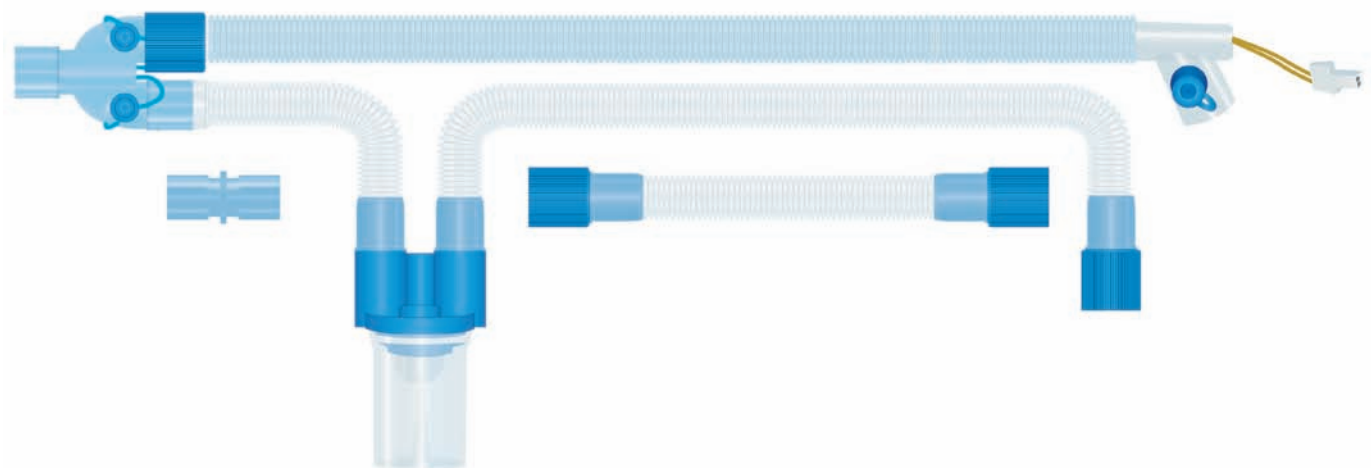
The frosted connection check marks on the connector on the patient side of the Y piece allows for visual inspection, confirming secure attachment.

#### Low Compliance with reduced Pressure and Drag on the Patient

Low compliance ventilator tubes are made with a high density flexible co-polymer, providing compliance to a level which is required for use with ventilated patients.

#### Heated Wires

Each heated wire system is tested to ensure it meets the required resistance level.



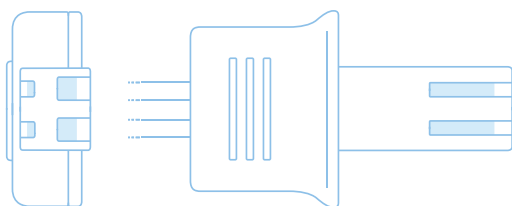
#### Maximised Water Collection

Self sealing water trap will close when the receiver is removed for contents discharge, hence securing ventilation pressure. The dual action valve inside the water trap prevents collected water flowing back into the system should the container be moved from it's vertical position. Vertical inlet ports enhance gravity induced flow of condensate, maximising water collection from the circuit.

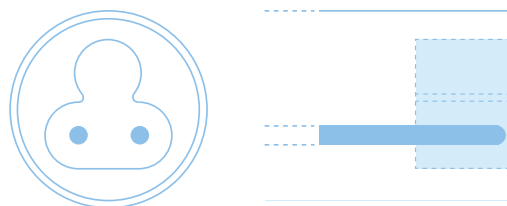
#### Easy and Secure Fitting

22mm F serrated connectors providing a secure fitting to the machine. Secure hand grip enables easy removal from the machine. Soft, lightweight and flexible material ensures a secure seal while still allowing ease of connection and disconnection.

#### Flying Lead Connection (standard):



#### Clover Leaf Connection:



#### Compatibility

These circuits are available with two types of heated wire connection, (Flying Lead and Clover Leaf) allowing compatibility with Fisher & Paykel™ and the most commonly used humidifiers and ventilators complying with the required standards.

## ICU Ventilator Systems

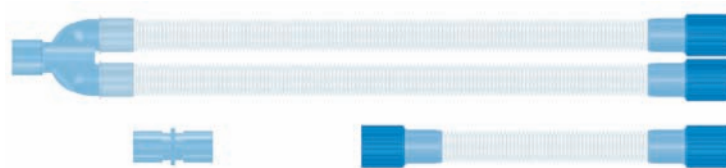
### ICU Breathing Systems

#### Standard Ventilator Breathing System



038-01-130	Standard Ventilator Breathing System (1.6m) 22mm lightweight low compliance corrugated tube with parallel Y piece and 22mm F connectors + spare 22mm M/M connector	20
038-01-132	Standard Ventilator Breathing System (2.4m) 22mm lightweight low compliance corrugated tube with parallel Y piece and 22mm F connectors + spare 22mm M/M connector	20

#### Standard Ventilator Breathing System with Limb



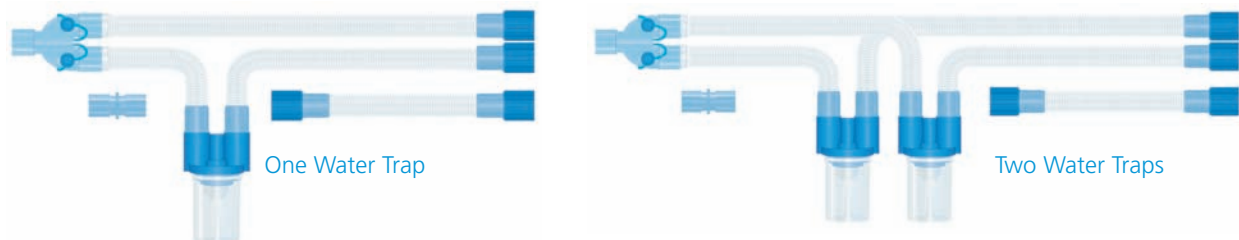
038-01-135	Standard Ventilator Breathing System with limb (1.6m) 22mm lightweight low compliance corrugated tube with parallel Y piece and 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector	20
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#### Standard Ventilator Breathing System with Monitoring Ports



038-01-140	Standard Ventilator Breathing System with Monitoring Ports (1.6m) 22mm lightweight low compliance corrugated tube with parallel Y piece and 2 monitoring ports, 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector	20
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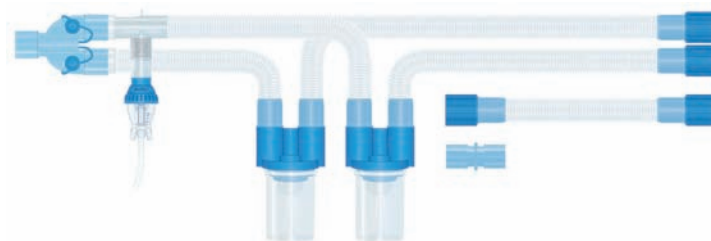
#### Standard Ventilator Breathing Systems with Monitoring Ports with Water Trap



038-01-150	Standard Ventilator Breathing System with Monitoring Ports and one Water Trap (1.6m) 22mm lightweight low compliance corrugated tube with parallel Y piece and 2 monitoring ports, 22mm F connectors, one self sealing water trap + 0.8m F/F limb + spare 22mm M/M connector	20
038-01-155	Standard Ventilator Breathing System with Monitoring Ports and two Water Traps (1.6m) 22mm lightweight low compliance corrugated tube with parallel Y piece and 2 monitoring ports, 22mm F connectors, 2 self sealing water traps, + 0.8m F/F limb + spare 22mm M/M connector	20

## ICU Ventilator Systems

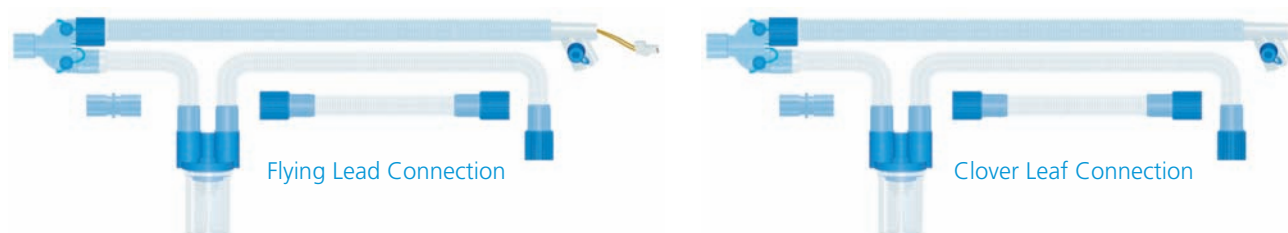
### Standard Ventilator Breathing Systems with in-line T-Piece valve and MaxiNeb Nebuliser



038-01-155F	Standard Ventilator Breathing System with In-Line T-Piece Valve and MaxiNeb Nebuliser (1.6m) 22mm lightweight low compliance corrugated tube with parallel Y piece and 2 monitoring ports, In-Line Nebuliser and Valve, 22mm F connectors, two self sealing water traps + 0.8m F/F limb + spare 22mm M/M connector	20
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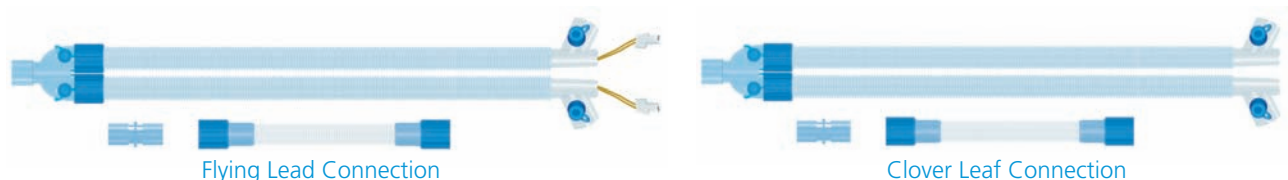
### Heated Wire Breathing Systems

#### Heated Wire Breathing Systems with Water Trap and Monitoring Ports



038-01-160	Heated Wire Breathing System with Water Trap and Monitoring Ports (1.6m) 22mm lightweight low compliance, heat resistant corrugated tube with parallel Y piece, two monitoring ports, 22mm F connectors, self sealing water trap + 0.8m F/F limb + spare 22mm M/M connector. Flying Lead Connection.	20
038-01-163	Heated Wire Breathing System with Water Trap and Monitoring Ports (1.6m) 22mm lightweight low compliance, heat resistant corrugated tube with parallel Y piece, two monitoring ports, 22mm F connectors, self sealing water trap + 0.8m F/F limb + spare 22mm M/M connector. Clover Leaf Connection.	20

### Dual Heated Wire Breathing Systems



038-01-161	Dual Heated Wire Breathing System (1.6m) 22mm lightweight low compliance, heat resistant corrugated tube with parallel Y piece, two monitoring ports, 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector. Flying Lead Connection.	20
038-01-164	Dual Heated Wire Breathing System (1.6m) 22mm lightweight low compliance, heat resistant corrugated tube with parallel Y piece, two monitoring ports, 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector. Clover Leaf Connection.	20

## Humidified Ventilator Systems

### Principles of Humidity

Under normal circumstances inspired gas is warmed, filtered and moistened during its passage through the upper airways, a process which is bypassed by endotracheal intubation and tracheostomy exposing the lungs and airways to dry cold gas giving rise to a number of adverse effects including: An increase in Mucus Viscosity, Depressed ciliary activity and Obstruction of the airways by tenacious secretions. Artificial humidification of inspired gases is therefore essential when the upper respiratory tract is bypassed.

Manual and Auto Fill Chambers share the following features:

#### Compatible with all circuits

22mm connectors allow compatibility with the wide range of circuits available.

#### Clear construction

Clear construction of the humidification chamber allows constant monitoring of the water.

#### Heat Transfer

Effective Heat Transfer From Aluminium Base.

#### Durable

The durable construction means that the chamber is impact resistant.

#### Gas Flow Diverters

The diverters ensure the patient receives a higher level of humidified air, by maximizing the flow as it passes through the chamber.

### Auto-Fill Humidification Chamber



- 210ml Capacity
- The specially designed valve regulates the flow of water into the chamber.

### Humidification Chambers

Compatible with Fisher Paykel™ MR850, MR810 and MR880 Humidifiers



Manual Fill Chamber



Auto Fill Chamber

038-31-750	Manual Fill Humidification Chamber 220ml Capacity	20
038-31-740	Auto Fill Humidification Chamber 210ml Capacity	20



## Humidified Ventilator Systems

### Ventilator Breathing Systems



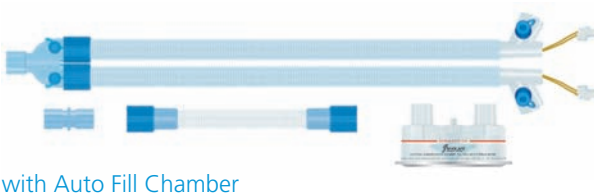
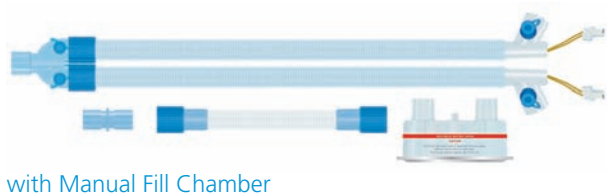
038-31-755	Ventilator Breathing System (1.6m) with Y piece, monitoring ports, water trap and manual fill humidification chamber.	10
038-31-760	Ventilator Breathing System (1.6m) with Y piece, monitoring ports, 2 water traps and manual fill humidification chamber	10
038-31-756	Ventilator Breathing System (1.6m) with Y piece, monitoring ports, water trap and auto fill humidification chamber.	10
038-31-761	Ventilator Breathing System (1.6m) with Y piece, monitoring ports, 2 water traps and auto fill humidification chamber	10

### Heated Wire Ventilator Breathing Systems with Flying Lead Connections



038-31-765	Ventilator Breathing System (1.6m) Heated Wire with Y piece, monitoring ports, water trap and manual fill humidification chamber.	10
038-32-765	Paediatric Ventilator Breathing System (1.6m) Heated Wire with Y piece, monitoring ports, 2 water traps and manual fill humidification chamber	10
038-31-767	Ventilator Breathing System (1.6m) Heated Wire with Y piece, monitoring ports, water trap and auto fill humidification chamber.	10
038-32-767	Paediatric Ventilator Breathing System (1.6m) Heated Wire with Y piece, monitoring ports, 2 water traps and auto fill humidification chamber	10

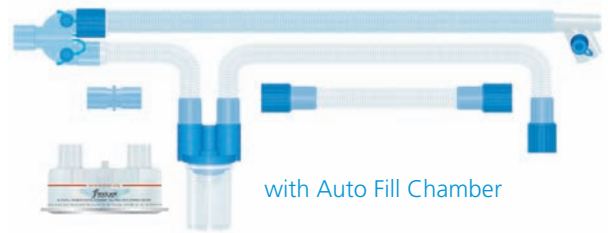
### Dual Heated Wire Ventilator Breathing Systems with Flying Lead Connections



038-31-745	Dual Heated Wire Breathing System (1.6m) with Y piece, monitoring ports and manual fill humidification chamber.	10
038-32-747	Paediatric Dual Heated Wire Breathing System (1.6m) with Y piece, monitoring ports and auto fill humidification chamber.	10

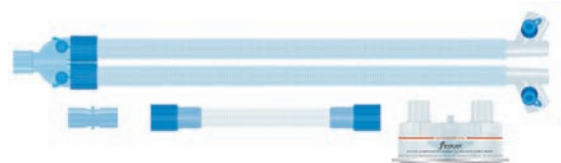
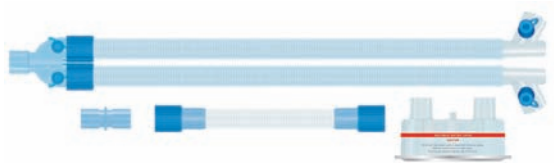
## Humidified Ventilator Systems

### Heated Wire Ventilator Breathing Systems with Clover Leaf Connections



038-31-766	Ventilator Breathing System (1.6m) Heated Wire with Y piece, monitoring ports, water trap and manual fill humidification chamber.	10
038-32-766	Paediatric Ventilator Breathing System (1.6m) Heated Wire with Y piece, monitoring ports, 2 water traps and manual fill humidification chamber	10
038-31-768	Ventilator Breathing System (1.6m) Heated Wire with Y piece, monitoring ports, water trap and auto fill humidification chamber.	10
038-32-768	Paediatric Ventilator Breathing System (1.6m) Heated Wire with Y piece, monitoring ports, 2 water traps and auto fill humidification chamber	10

### Dual Heated Wire Ventilator Breathing Systems with Clover Leaf Connections



038-31-746	Dual Heated Wire Breathing System (1.6m) with Y piece, monitoring ports and manual fill humidification chamber.	10
038-32-748	Paediatric Dual Heated Wire Breathing System (1.6m) with Y piece, monitoring ports and auto fill humidification chamber.	10

## Non Invasive Ventilation Breathing Systems

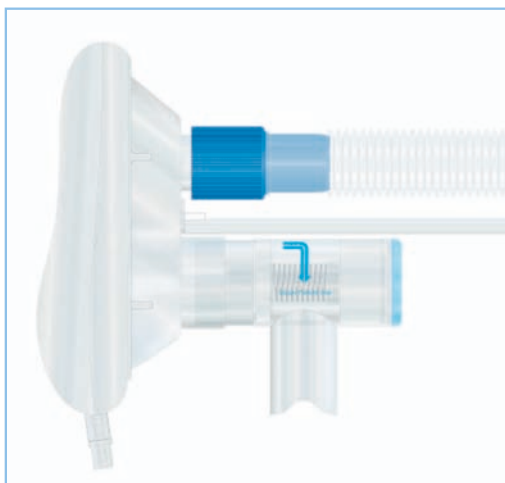
### PEEP Valves, Masks and Accessories

Flexicare has developed a range of Fixed PEEP (Fixed Positive End Expiratory Pressure) valves provided for clinicians to prescribe a given maximum pressure for the patients requirement. The valves are colour coded and denote the pre-determined fixed value of PEEP.

Patients which may be suitable for non invasive ventilation (NIV) may demonstrate:

- Acute exacerbation for COPD
- Mechanical Ventilation Weaning
- Asthmatic Patients
- Thoracic Restrictive Disease
- Acute or Chronic Respiratory Failure (including Hypoxaemic Acute Respiratory Failure)

The PEEP valve is fitted to a specially designed CPAP mask on the lower expiratory port to allow expired gases to be exhaled via fixed value exhalation port.



Previously the only method for ventilation involved the patient being sedated and intubated. However, with positive pressure, patients with respiratory failure or lung disease can benefit from NIV as this negates the need for intubation and the associated risks outside of the Intensive Care department and for some patients needing long term support, this can be administered in the home environment as well.

The Flexicare CPAP Mask is specifically designed to create a good seal when fitted to the patient whilst providing maximum comfort during use.

### Fixed Value PEEP Valves

038-35-902	Fixed Value PEEP Valve 2.5cm H <sub>2</sub> O (Black)	25	5
038-35-905	Fixed Value PEEP Valve 5cm H <sub>2</sub> O (Blue)	5	5
038-35-907	Fixed Value PEEP Valve 7.5cm H <sub>2</sub> O (Yellow)	75	5
038-35-910	Fixed Value PEEP Valve 10cm H <sub>2</sub> O (Green)	10	5
038-35-912	Fixed Value PEEP Valve 12.5cm H <sub>2</sub> O (Pink)	125	5
038-35-915	Fixed Value PEEP Valve 15cm H <sub>2</sub> O (Red)	15	5
038-35-920	Fixed Value PEEP Valve 20cm H <sub>2</sub> O (Brown)	20	5

# Non Invasive Ventilation Breathing Systems

## Continuous Positive Air Pressure (CPAP) Masks

The CPAP Mask is specifically designed to provide a good seal when fitted to the patient whilst providing maximum comfort.

### Inspiratory Safety Valve

Incorporates a safety valve for inspiration should the flow rate be insufficient or if the inspiratory line be occluded.



### Contoured Cushion

Conforms to the patients anatomical contour.



### Pressure Monitoring Port

### Fixation Mounts

Secures the four point harness

### Inflation Port

Easily adjusts the cushion pressure to maximize seal and ensure patient comfort.

### Clear Construction

Allows for visual inspection of patient

## CPAP Masks

038-35-930	Large Adult CPAP Mask	10
038-35-931	Medium Adult CPAP Mask	10



The CPAP Mask head strap is adjustable to accommodate patients requirements with equal interval placements to ensure comfort whilst providing a secure fit. The soft silicone head strap has rounded edges to maximise patient comfort over prolonged periods of use.



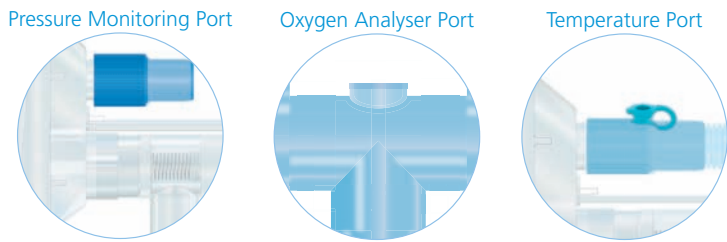
## CPAP Headstrap

038-35-934	CPAP Mask head strap - Medium	10
038-35-935	CPAP Mask head strap - Large	10

# Non Invasive Ventilation Breathing Systems

## CPAP Breathing Systems

Continuous Positive Airway Pressure (CPAP) is commonly used in critically ill patients with respiratory failure primarily to provide increased blood oxygenation by maintaining PaO2 levels for effective ventilation.



### Standard CPAP System



038-35-940	CPAP Breathing System 1.6m with Large Adult Mask, Headstrap, filter & 5cm H <sub>2</sub> O PEEP valve (incl pressure line)	5	10
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### Standard CPAP System with Safety Valve



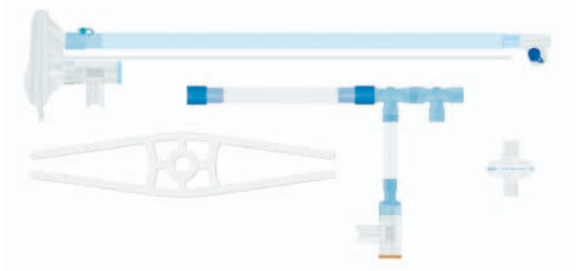
038-35-941	CPAP Breathing System 1.6m with Large Adult Mask, Headstrap, filter & 5cm H <sub>2</sub> O and 20cm H <sub>2</sub> O PEEP valve (incl pressure line)	5 20	10
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### Active Humidification CPAP System



038-35-942	Heated Wire CPAP System 1.6m with Large Adult Mask, Headstrap, filter & 5cm H <sub>2</sub> O PEEP valve (incl pressure line)	5	10
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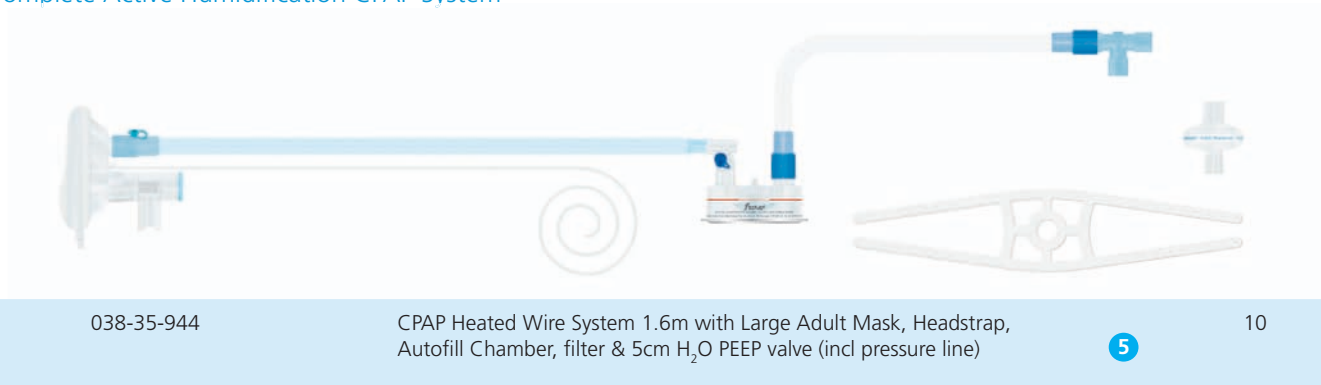
### Active Humidification CPAP System with Safety Valve



038-35-943	Heated Wire CPAP System 1.6m with Large Adult Mask, Headstrap, filter & 5cm H <sub>2</sub> O and 20cm H <sub>2</sub> O PEEP valve (incl pressure line)	5 20	10
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## Non Invasive Ventilation Breathing Systems

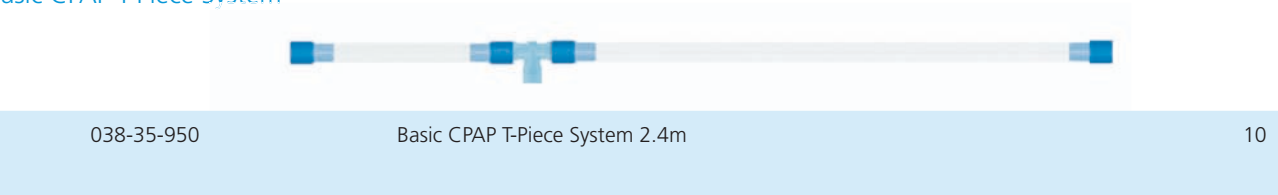
### Complete Active Humidification CPAP System



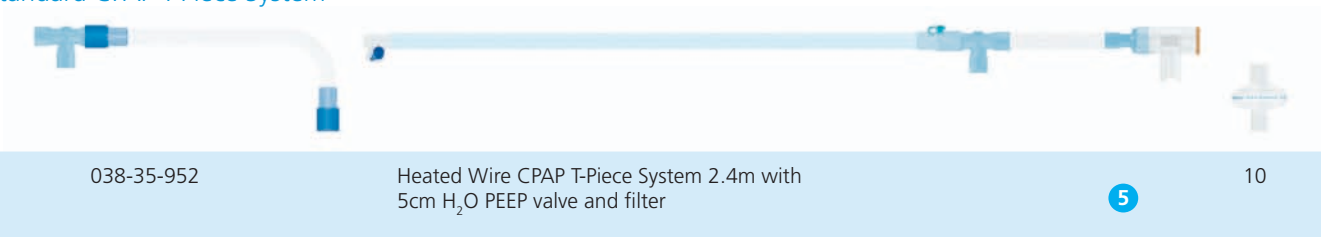
### Complete Active Humidification CPAP System with Safety Valve



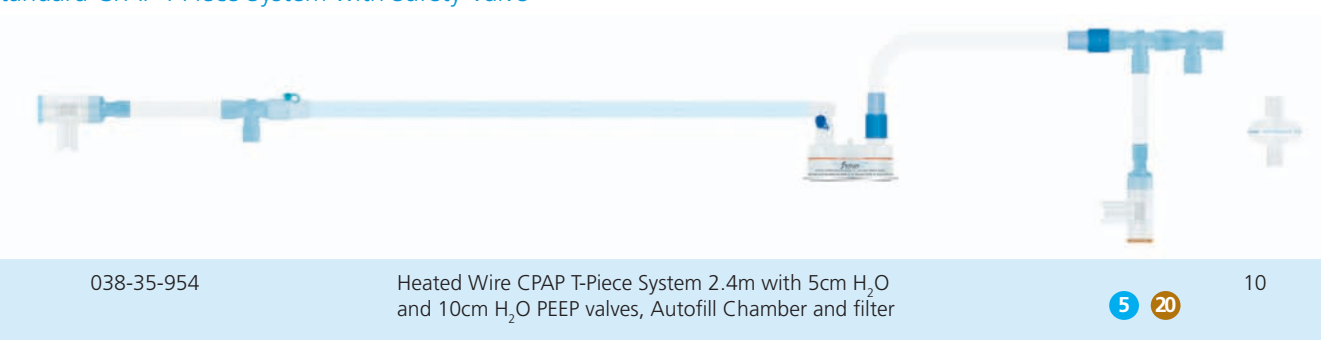
### Basic CPAP T-Piece System



### Standard CPAP T-Piece System



### Standard CPAP T-Piece System with Safety Valve





# Non Invasive Ventilation Breathing Systems

## Intermittent Positive Pressure Breathing (IPPB) Breathing Systems

### Standard IPPB System



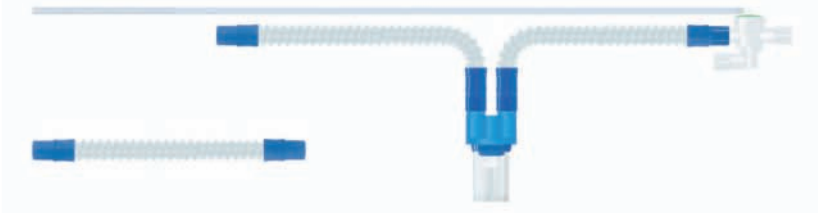
038-35-310	Smooth Bore 1.6m Breathing System with exhalation valve and line	10
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### Standard IPPB System with Monitoring Line



038-35-312	Smooth Bore 1.6m Breathing System with exhalation valve and line	10
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### IPPB Cold Humidification System



038-35-314	Smooth Bore 1.6m Breathing System with exhalation valve, line, water trap and Limb	10
------------	--	----

### IPPB Cold Humidification System with Monitoring Line



038-35-316	Smooth Bore 1.6m Breathing System with exhalation valve, line, water trap and Limb	10
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BiPAP is a registered trademark of Resperonics

## Non Invasive Ventilation Breathing Systems

### Heated Wire IPPB System



038-35-318

Heated Wire 1.6m Breathing System with exhalation valve, line and limb

10

### Heated Wire IPPB System with Monitoring Line



038-35-320

Heated Wire 1.6m Breathing System with exhalation valve, line with pressure line and limb

10

### Universal IPPB System



038-35-322

Nebulising IPPB circuit, Smooth Bore 1.6m Breathing System with exhalation vale, line & nebuliser

10

### Universal IPPB System



038-35-323

Nebulising IPPB circuit, corrugated tube 1.6m Breathing System with exhalation vale, line & nebuliser

10

## Non Invasive Ventilation Breathing Systems

### Bi Level Positive Airway Pressure (BiPAP)

#### Basic BiPAP System



038-35-290	Smooth Bore 1.6m Breathing System with exhaust port	10
038-35-291	As above with 22mm corrugated tube	10

#### Standard BiPAP System with Monitoring Line



038-35-292	Smooth Bore 1.6m Breathing System with exhaust port and Pressure monitoring line	10
038-35-295	As above with 22mm corrugated tube	10

#### Standard BiPAP System with Split Monitoring Line



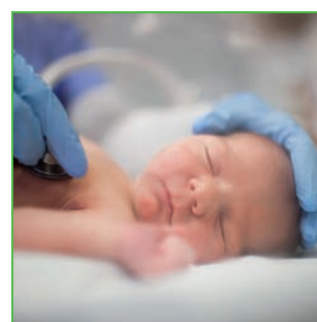
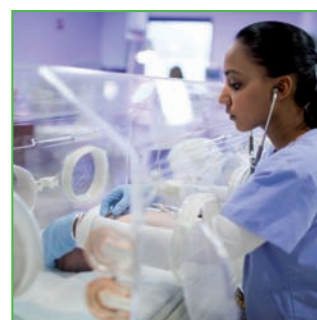
038-35-293	Smooth Bore 1.6m Breathing System with exhaust port and Pressure monitoring line	10
038-35-297	As above with 22mm corrugated tube	10

# NEONATAL BREATHING SYSTEMS

## Neonatal Breathing Systems

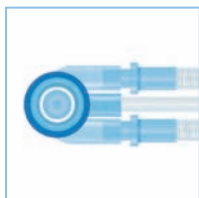
Caring for our most delicate patients, Flexicare has developed a full range of ITU Breathing systems, Nasal Cannula, Anaesthetic accessories, Laryngoscopes, Endotracheal tubes and Resuscitators suitable for neonatal care.

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Neonatal Universal Heated Wire Breathing Systems	81
Neonatal Dual Heated Wire Breathing Systems	82
Neonatal Nitric Oxide Adaptor Kit	82
Humidification Chambers	82



## Neonatal Breathing Systems

The range of neonatal circuits for use in the NICU provides choice of active or passive humidification.



### Low Dead Space Neonatal Y-Piece

Very low dead space and rounded design reduces the risk of rebreathing (5.5 cubic cm/ml ). The self sealing suction port allows for suctioning the patient without affecting the delivery of fresh gases.



### Pressure Line

Fitted to the centre of the Y-Piece, it will measure the pressure in the circuit providing the most accurate information.



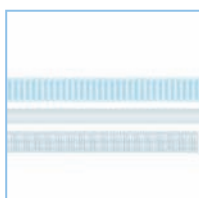
### Self Seal Water Trap

The self sealing water trap incorporates a non-return valve that protects against the accidental flow of any liquids from the water trap into the circuit.



### Heated Wire Limb

The inspiratory heated wire limb maintains the temperature and humidified fresh gases to the point of delivery at the patient end whilst reducing condensation in the circuit. This allows for saturated fresh gases to be delivered to the patient at the required temperature. Dual heated wire option is available to reduce condensation in the expiratory limb.



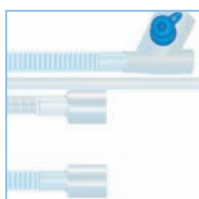
### 10mm Corrugated Tubing

The 10mm corrugated tubing with shallow corrugations reduces the resistance to flow while maintaining a low compliance and allowing for fast delivery of fresh gases to the patient. The lightweight of the tubing minimizes the drag on the patient. The structure of the 10mm corrugated tube allows the use of the circuit with oscillating ventilators.



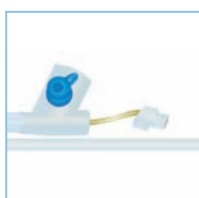
### Monitoring Port

The detachable monitoring port can be moved close to the y-piece or moved further away when the circuit is used with incubated patients.



### 15mm Connectors

The neonatal range of circuits have standard fitting 15mm connectors.



### Choice of heated wire connector

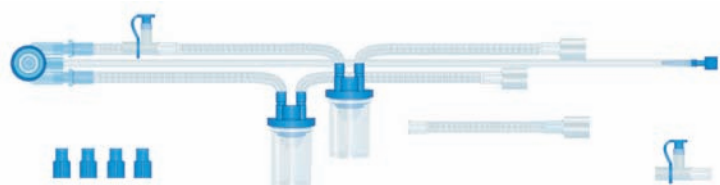
There are two different heated wire connectors to fit the specific humidifiers available.

Flying Lead Connection    Clover Leaf Connection



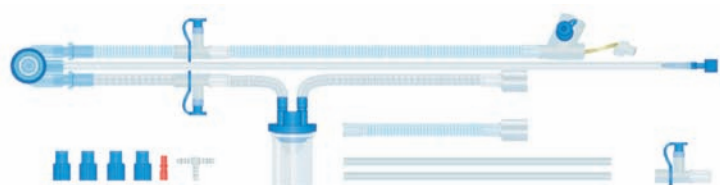
## Neonatal Breathing Systems

### Neonatal Cold Humidification Breathing System



038-03-315	Neonatal Cold Humidification Breathing System with temperature port and pressure line. 10mm 1.8m corrugated tube with neonatal y-piece, pressure line, water trap, 4 flexible 15M/F connectors and 0.5m spare limb	20
038-03-315C	As above with auto-fill humidification chamber	20

### Neonatal Universal Heated Wire Breathing System with Flying Lead Connection



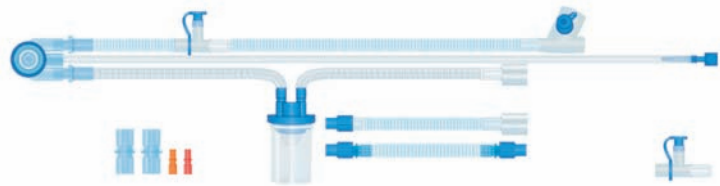
038-03-310	Neonatal Universal Heated Wire Breathing System with detachable inspiratory and expiratory temperature ports and pressure line (for use with incubators) 10mm 1.8m corrugated tube with neonatal y-piece, pressure line, water trap, 4 flexible connectors and 0.5m spare limb with flying lead connection	20
038-03-310C	As above with auto-fill humidification chamber	20

### Neonatal Universal Heated Wire Breathing System with Clover Leaf Connection



038-03-311	Neonatal Universal Heated Wire Breathing System with detachable inspiratory and expiratory temperature ports and pressure line (for use with incubators) 10mm 1.8m corrugated tube with neonatal y-piece, pressure line, water trap, 4 flexible connectors and 0.5m spare limb with clover leaf connection	20
038-03-311C	As above with auto-fill humidification chamber	20

### Neonatal Heated Wire Breathing System with Clover Leaf Connection



038-03-340	Neonatal Heated Wire Breathing System with inspiratory temperature port and pressure line. 10mm corrugated tube with neonatal y-piece, pressure line, water trap, 2 flexible 15M/F connectors and 2 x 0.5m spare limbs with clover leaf connector	20
038-03-340C	As above with auto-fill humidification chamber	20



## Neonatal Breathing Systems

### Neonatal Heated Wire Breathing System with Flying Lead Connection



038-03-341	Neonatal Heated Wire Breathing System with inspiratory temperature port and pressure line. 10mm corrugated tube with neonatal y-piece, pressure line, water trap, 2 flexible 15M/F connectors and 2 x 0.5m spare limbs with flying lead connector	20
038-03-341C	As above with auto-fill humidification chamber	20

### Neonatal Dual Heated Wire Breathing System with Flying Lead Connection



038-03-345	Neonatal Dual Heated Wire Breathing System with inspiratory and expiratory temperature ports, and pressure line with flying lead connector	20
038-03-345C	As above with auto-fill humidification chamber	20

### Neonatal Dual Heated Wire Breathing System with Clover Leaf Connection



038-03-346	Neonatal Dual Heated Wire Breathing System with inspiratory and expiratory temperature ports, and pressure line with clover leaf connector	20
038-03-346C	As above with auto-fill humidification chamber	20

### Neonatal Nitric Oxide Adapter Kit



038-03-100	Neonatal Nitric Oxide Adapter Kit	20
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### Humidification Chambers



Manual Fill Chamber



Auto Fill Chamber

038-31-750	Manual Fill Humidification Chamber 220ml Capacity	20
038-31-740	Auto Fill Humidification Chamber 210ml Capacity	20

# BREATHING FILTERS

## LuerSafe, VentiShield Bacterial / Viral Filters, ThermoShield HMEF's, HepaShield, Filters and HME's

The range of Breathing Filters and HMEF's include Adult Electrostatic Breathing Filters and HMEF's, Mini Electrostatic Breathing Filters and HMEF's, Adult and Paediatric Pleated Hydrophobic Bacterial / Viral Filters.

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### LuerSafe

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### VentiShield Bacterial / Viral Filters

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Adult VentiShield Filters .....	87
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### ThermoShield HMEF's

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Neonatal ThermoShield HME .....	89
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### Other Filters and HMEs

ThermoTrach Heat & Moisture Exchanger .....	91
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Pulmonary Function Test Filter .....	91
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The primary objective of breathing filters is to stop bacteria and viruses being transferred to and from the patient and preventing cross infection. Electrostatic filters achieve this by holding onto micro-organisms through the static electric charge in the medium. The pleated paper filter also known as a mechanical filter achieves this by tightly packed layers of mixed strands of glass fibres physically preventing bacteria and viruses from passing through.

### Properties of Filters and HMEF's

When considering filters a number of important properties should be taken into account and these are:

#### 1. Filtration Efficiency

As many as 10-15% of intubated patients develop pneumonia at a level of 1-3% per day of intubation. These pneumonia's may prolong hospital stays by 4-9 days and contribute to as many as 15% of all hospital deaths.

From this, it is evident that filtration efficiency is paramount to protect the patients and ventilators from cross contamination. Flexicare filters maintain protection against bacteria and viruses at a very high level of efficiency. This level of effectiveness is independently tested and verified by the Health Protection Agency at Porton Down Salisbury, giving confidence in our filter properties. Flexicare filters maintain there high level of efficiency during the recommended period of use.

#### 2. Light Weight and Ergonomically Shaped

Flexicare Filters and HMEF's designs provide a rounded ergonomic shape to prevent pressure marking or discomfort for the patient. They are of light weight design thus reducing drag on breathing systems and are made of clear material allowing visual observation in terms of potential obstructions.

#### 3. Humidification Abilities

To counteract the risk of atelectasis, epithelial damage and reduction of mucociliary transport, adequate humidification should be provided to long term intubated patients. HMEF's may not only act against these factors by providing humidification, their use is also thought to reduce the incidence of late onset Ventilator Associated Pneumonia compared to heated wire systems.

It is recommended that HMEF humidification levels should be at least 30mg/L H<sub>2</sub>O at an inspired air temperature of 30°C. All Flexicare HMEF's exceed this minimum by providing a maximum moisture output performance of 32.3mg/L H<sub>2</sub>O as independently tested and verified by the Medical Device Agency (MDA).<sup>4</sup>

#### 4. Minimal Dead Space and Minimal Pressure Drop

Design of the filter housing must provide the smallest dead space possible whilst at the same time allowing a good gas flow with minimal resistance (pressure drop) through the filter media. The design of Flexicare Filters and HMEF's has incorporated a balance of these critical requirements to create a filter with minimal resistance to flow while maintaining a low dead space.



without port



with tethered cap



with LuerSafe connection

All the values stated in the product specifications are supported by independent test results. The efficiency of the Flexicare and HepaShield filter is tested by the Health Protection Agency at Porton Down, Salisbury, UK. Testing was done for bacterial and viral efficiency using Bacillus Subtillis and MS-2 Coliphage. Moisture output and resistance were tested independently by MeDEC, Wales College of Medicine .





LuerSafe breathing filters incorporate a unique cap-less self sealing luer port which will only accept the correct corresponding colour coded LuerSafe monitoring line. This in turn will open the valve and provide uninterrupted flow to sample CO<sub>2</sub> levels when connected.

LuerSafe eliminates erroneous misconnections to standard luer connections such as IV tubing or other connectors ensuring a correct connection to the monitoring port only.

### Cap-less Design

The self sealing valve prevents air flow in and out of the filter when a monitoring line is not connected, eliminating the need to have a cap to be manually fixed and removed.

### Colour Coded Valve

The LuerSafe Valve is visibly seen through the filter housing by its distinctive orange colour which can be easily matched to the correct corresponding colour coded monitoring line connector.

### Unique Design Luer Port

Eliminating the risk of misconnection by not accepting a standard luer connector. The unique size only fits the LuerSafe monitoring line identified by the colour coded connector.



To connect a CO<sub>2</sub> monitoring line to a LuerSafe filter, locate the orange colour coded LuerSafe Monitoring Line Connector.



Insert the connector into the LuerSafe Port and rotate in a clockwise direction, depressing the valve until a secure lock is reached.



Verify that CO<sub>2</sub> readings are visible



To remove, unscrew the monitoring line and the valve will self seal.

## VentiShield™

### Electrostatic Filters

Electrostatic filters use a medium constructed of permanently bipolar charged rectangular split fibres which are able to capture airborne particles. This type of filter is recommended for applications where high efficiency and low pressure drop is required. It offers excellent efficiency for anaesthetic breathing filters and pulmonary filters.

The adult VentiShield range of filters provide 99.999% efficiency within a compact, light weight rounded design ideal for patient end use with an ET Tube or Laryngeal Mask Airway.

### Universal Connections

The 22M/15F connectors comply to BS EN ISO 5356 standard. The design of the filter connectors prevents fitting of filter in the wrong direction within the system.

### Reduced Drag on Breathing System

The light weight of VentiShield filters and HMEF reduces the drag on breathing system.

### Reduced Risk of Pressure Mark

The rounded shape with no sharp edges, reduces the risk of leaving pressure marks on the patient.



Wide choice available with LuerSafe port, standard luer lock port or without port.



LuerSafe

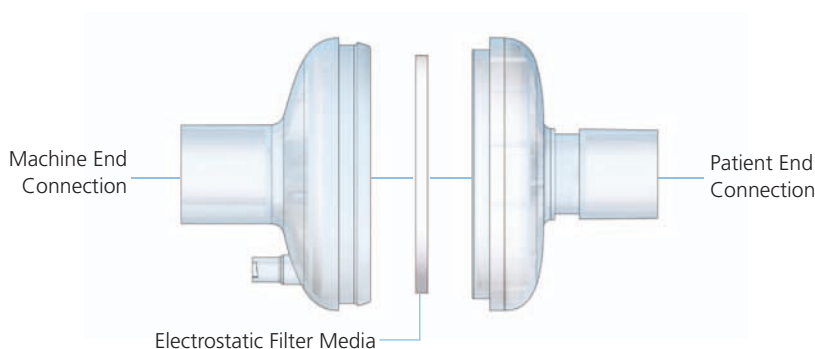


Tethered Cap



Without Port

### Construction of Adult Electrostatic Breathing Filter



Available as a sterile packed product

## Adult VentiShield Filter

	038-41-360	038-41-340	038-41-365	038-41-345	038-41-365LS	038-41-345LS	038-41-366	038-41-366LS
Efficiency	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%
Resistance 30L/min	1.2cm H <sub>2</sub> O	1.4cm H <sub>2</sub> O	1.2cm H <sub>2</sub> O	1.4cm H <sub>2</sub> O	1.2cm H <sub>2</sub> O	1.4cm H <sub>2</sub> O	1.5cm H <sub>2</sub> O	1.5cm H <sub>2</sub> O
Dead Space	69ml	62ml	69ml	62ml	69ml	62ml	76ml	76ml
Recommended V <sub>T</sub>	210ml	190ml	210ml	190ml	210ml	190ml	220ml	220ml
Weight	30g	31g	32g	33g	33g	31g	38g	38g
CO <sub>2</sub> Port	None	None	Tethered	Tethered	LuerSafe	LuerSafe	Tethered	LuerSafe



038-41-360



038-41-340



038-41-365



038-41-345



038-41-365LS



038-41-345LS



038-41-366



038-41-366LS

038-41-360	Adult Bacterial / Viral Filter	50
038-41-340	Adult Angled Bacterial / Viral Filter	50
038-41-365	Adult Bacterial / Viral Filter (with tethered cap port)	50
038-41-345	Adult Angled Bacterial / Viral Filter (with tethered cap port)	50
038-41-365LS	LuerSafe Adult Bacterial / Viral Filter (with self sealing port)	50
038-41-345LS	LuerSafe Adult Angled Bacterial / Viral Filter (with self sealing port)	50
038-41-366	Adult Bacterial / Viral Filter (with tethered cap port) + Low Profile Elbow (22M/15F)	50
038-41-366LS	LuerSafe Adult Bacterial / Viral Filter (with self sealing port) + Low Profile Elbow (22M/15F)	50

## Mini VentiShield Filter

	038-42-360	038-42-365	038-42-365LS	038-42-366	038-42-366LS
Efficiency	99.99%	99.99%	99.99%	99.99%	99.99%
Resistance 30L/min	1.9cm H <sub>2</sub> O	1.9cm H <sub>2</sub> O	1.9cm H <sub>2</sub> O	2.2cm H <sub>2</sub> O	2.2cm H <sub>2</sub> O
Dead Space	28ml	28ml	28ml	35ml	35ml
Minimum Recommended V <sub>T</sub>	90ml	90ml	90ml	110ml	110ml
Weight	19g	21g	21g	28g	28g
CO <sub>2</sub> Port	None	Tethered	LuerSafe	Tethered	LuerSafe



038-42-360



038-42-365



038-42-365LS



038-42-366



038-42-366LS

038-42-360	Mini Bacterial / Viral Filter	50
038-42-365	Mini Bacterial / Viral Filter (with tethered cap port)	50
038-42-365LS	LuerSafe Mini Bacterial / Viral Filter	
038-42-366	Mini Bacterial / Viral Filter (with tethered cap port) + Low Profile Elbow (22M/15F)	50
038-42-366LS	LuerSafe Mini Bacterial / Viral Filter (with self sealing port) + Low Profile Elbow (22M/15F)	50



# ThermoShield™

## HMEFs

HMEs use the patients own moisture and humidity from expiration to humidify anaesthetic gases during inspiration. When a patient is intubated, the upper airway is bypassed and results in a loss of humidification of inspired air. Dry gases can have adverse effects and thus to prevent causing the patient trauma HMEF's play the role of acting as the humidifier in lieu of the upper airway. To counter act the risk of atelectasis, epithelial damage and reduction of mucociliary transport, adequate humidification should be provided to long term intubated patients

ThermoShield HMEFs provide a high moisture output protecting patients against the adverse effects of prolonged dry gas exposure.

## Universal Connections

The 22M/15F connectors comply to BS EN ISO 5356 standard. The design of the filter connectors prevents fitting of filter in the wrong direction within the system.

## Secure Luer Lock

The tethered Luer Lock cap is a push fit design which is easy to operate and secured with a strap, eliminating the risk of misplacement or accidental loss.

## Reduced Risk of Pressure Mark

The rounded shape with no sharp edges, reduces the risk of leaving pressure marks on the patient.



## Adult ThermoShield Filter

	038-41-350	038-41-330	038-41-355	038-41-335	038-41-355LS	038-41-335LS	038-41-356	038-41-357	038-41-359
Efficiency	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%
Humidification	32mg/l air	32mg/l air	32mg/l air	32mg/l air	32mg/l air	32mg/l air	32mg/l air	32mg/l air	32mg/l air
Resistance 30L/min	1.4cm H <sub>2</sub> O	1.7cm H <sub>2</sub> O	1.4cm H <sub>2</sub> O	1.7cm H <sub>2</sub> O	1.4cm H <sub>2</sub> O	1.7cm H <sub>2</sub> O	2.0cm H <sub>2</sub> O	2.0cm H <sub>2</sub> O	3.1cm H <sub>2</sub> O
Dead Space	69ml	62ml	69ml	62ml	69ml	62ml	76ml	96ml	87-105ml
Min Recom Vr	210ml	190ml	210ml	190ml	210ml	190ml	230ml	300ml	270ml
Weight (g)	39g	38g	41g	40g	41g	40g	45g	55g	59g
CO <sub>2</sub> Port	None	None	Tethered	Tethered	LuerSafe	LuerSafe	Tethered	Tethered	Tethered



038-41-350



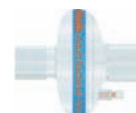
038-41-330



038-41-355



038-41-335



038-41-355LS



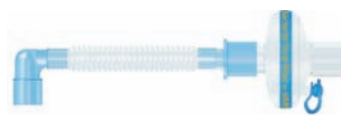
038-41-335LS

038-41-350	Adult Bacterial / Viral Filter + HME	50
038-41-330	Adult Angled Bacterial / Viral Filter + HME	50
038-41-355	Adult Bacterial / Viral Filter + HME (with tethered cap port)	50
038-41-335	Adult Angled Bacterial / Viral Filter + HME (with tethered cap port)	50
038-41-355LS	LuerSafe Adult Bacterial / Viral Filter + HME (with self sealing port)	50
038-41-335LS	LuerSafe Adult Angled Bacterial / Viral Filter + HME (with self sealing port)	50

## ThermoShield HME's



038-41-356



038-41-357



038-41-359

038-41-356	Adult Bacterial / Viral Filter + HME (with tethered cap port) + Low Profile Elbow (22M/15F)	50
038-41-357	Adult Bacterial / Viral Filter + HME (with tethered cap port) + 15mm tube + Low Profile Elbow (22M/15F)	50
038-41-359	Adult Bacterial / Viral Filter (with tethered cap port) + Expandable Catheter Mount with Double Swivel Elbow & Elastomeric Cap	50

### Mini ThermoShield Filter

	038-42-350	038-42-355	038-42-355LS	038-42-356	038-42-356LS	038-42-357
Efficiency	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%
Humidification	31mg/l air	31mg/l air	31mg/l air	31mg/l air	31mg/l air	31mg/l air
Resistance 30L/min	3.0cm H <sub>2</sub> O	3.0cm H <sub>2</sub> O	3.0cm H <sub>2</sub> O	3.1cm H <sub>2</sub> O	3.1cm H <sub>2</sub> O	4.0cm H <sub>2</sub> O
Dead Space	28ml	28ml	28ml	35ml	35ml	46-64ml
Recommended V <sub>T</sub>	90ml	90ml	90ml	105ml	105ml	150ml
Weight	22g	25g	25g	32g	32g	45g
CO <sub>2</sub> Port	None	Tethered	LuerSafe	Tethered	LuerSafe	Tethered



038-42-350



038-42-355



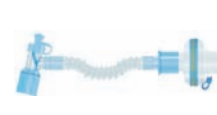
038-42-355LS



038-42-356



038-42-356LS



038-42-357

038-42-350	Mini Bacterial / Viral Filter + HME	50
038-42-355	Mini Bacterial / Viral Filter + HME (with tethered cap port)	50
038-42-355LS	LuerSafe Mini Bacterial / Viral Filter + HME (with self sealing port)	50
038-42-356	Mini Bacterial / Viral Filter + HME (with tethered cap port) + Low Profile Elbow (22M/15F)	50
038-42-356LS	LuerSafe Mini Bacterial / Viral Filter + HME (with self sealing port) + Low Profile Elbow (22M/15F)	50
038-42-357	Mini Bacterial / Viral Filter (with tethered cap port) + Expandable Catheter Mount with Double Swivel Elbow & Elastomeric Cap	50

### Neonatal HME

	Humidification	Resistance	Dead Space	Weight
038-43-150	28mg/l air	0.3cm H <sub>2</sub> O at 7.5L/min	2.1ml	3.6g

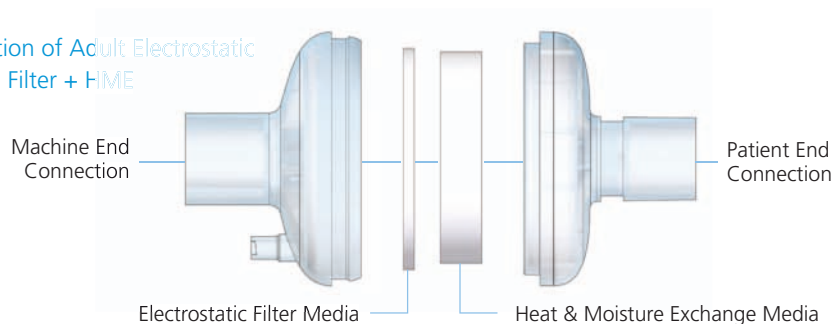


038-43-150

Neonatal HME Sterile

25

### Construction of Adult Electrostatic Breathing Filter + HME



Available as a sterile packed product

# HepaShield

## Adult Pleated Hydrophobic Bacterial / Viral Filters

HepaShield is a mechanical filter with 99.99999% efficiency providing superior filtration. The pleated filter media is specifically packed to maximise flow of gases through the filter casing to ensure that the surface area is fully utilised.

# HepaShield™

### Universal Connection

The 22M/15F connectors comply to BS EN ISO 5356 standard.

### Secure Luer Lock

The tethered Luer Lock cap is of a push fit design which is easy to operate and is secured with a strap, eliminating the risk of misplacement or accidental loss.

### Reduced Risk of Pressure Mark

The rounded edges of the filter reduce the risk of leaving pressure marks on the patient.

### Reduced Drag on Breathing Systems

The weight of HepaShield reduces the drag on Breathing Systems.



	038-41-370	038-41-375	038-41-376	038-42-380	038-42-385	038-42-386
Efficiency	99.99999%	99.99999%	99.99999%	99.99999%	99.99999%	99.99999%
Humidification	25mg/l air	25mg/l air	25mg/l air	25mg/l air	25mg/l air	25mg/l air
Resistance 30L/min	1.4cm H <sub>2</sub> O	1.4cm H <sub>2</sub> O	1.4cm H <sub>2</sub> O	2.7cm H <sub>2</sub> O	2.7cm H <sub>2</sub> O	2.8cm H <sub>2</sub> O
Dead Space	50ml	50ml	74-85ml	38ml	38ml	56-74ml
Minimum Vr	250ml	250ml	250ml	120ml	120ml	180ml
Weight	42g	43g	61g	26g	29g	47g
CO <sub>2</sub> Port	None	Tethered	Tethered	None	Tethered	Tethered

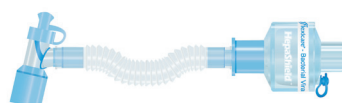
## Adult Pleated Hydrophobic Bacterial / Viral Filter



038-41-370



038-41-375



038-41-376

038-41-370	Adult Pleated Hydrophobic Bacterial / Viral Filter	50
038-41-375	Adult Pleated Hydrophobic Bacterial / Viral Filter (with tethered cap port)	50
038-41-376	Adult Pleated Hydrophobic Bacterial / Viral Filter (with tethered cap port) + Expandable Catheter Mount with Double Swivel Elbow + Elastomeric Cap	50

## Paediatric Pleated Hydrophobic Bacterial / Viral Filter



038-42-380



038-42-385



038-42-386

038-42-380	Paediatric Pleated Hydrophobic Bacterial / Viral Filter	50
038-42-385	Paediatric Pleated Hydrophobic Bacterial / Viral filter (with tethered cap port)	50
038-42-386	Paediatric Pleated Hydrophobic Bacterial / Viral Filter (with tethered cap port) + Catheter Mount with Plain Elbow (22M/15F)	50

## Other Filters and HMEs

# ThermoTrach™

### ThermoTrach™ Heat and Moisture Exchanger

Heat Moisture Exchanger (HME) for spontaneous breathing patients, for use with a tracheostomy tube.

#### 15mm Female Connector

The standard 15mm connector can be used with all tracheostomy tubes.

#### Clear Construction

Allows for visual inspection of potential build up of secretions which can block the airway.

#### Self Sealing Suction Port & Integral Cough Vent

The integrated self sealing suction port provides ease of inserting a suction catheter. The vent can open during vigorous coughing, allowing the thick mucosal secretions to be expelled, avoiding blocking of the airway.

#### Swivel Oxygen Connector

The ThermoTrach swivel oxygen connector allows for supplementary oxygen tubing to be connected and placed in the most comfortable position for the patient, reducing the risk of disconnection, kinking and patient drag.

#### Anatomical Curved Design

The curved design follows the contour of the neck.

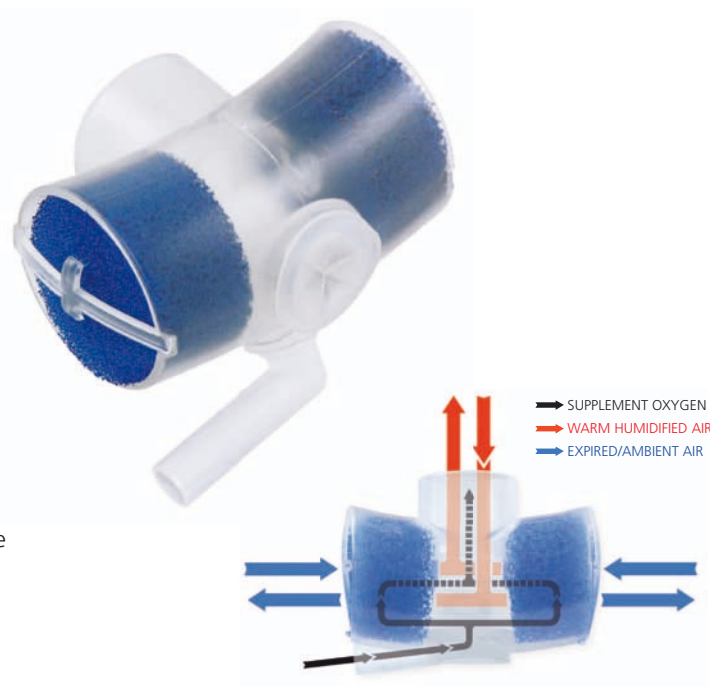


Diagram representing the Heat & Moisture exchange process.

Moisture Return	32.0mg H <sub>2</sub> O at 15 breath/min	Resistance	0.11cm H <sub>2</sub> O at gas flow rate 30L/min 1.0cm H <sub>2</sub> O at gas flow rate 60L/min
Volume/Dead Space	17ml	Weight	5.1g

038-41-250

Thermotrach Heat and Moisture Exchanger

50

### Pulmonary Function Test Filter

Protecting both patient and pulmonary function testing equipment, the PFT Filter reduces the risk of cross-contamination between patients and equipment with minimal resistance to ensure that the test results are as accurate as possible. Reducing the risk of transmitting respiratory pathogens with the use of the Flexicare PFT Filter during normal breathing or forced vital capacity testing meets the ATS recommendations for resistance in PFT equipment.

- Single Patient Use
- Low Resistance
- Cost Effective
- Nose Clip

Efficiency	99.99999%
Resistance	0.4cm H <sub>2</sub> O at 30L/min 1.0cm H <sub>2</sub> O at 60L/min
Volume/Dead Space	135ml
Weight	41g
Height	250ml



038-41-395

Pulmonary Function Test Filter

50

038-41-394

Nose Clip for use with Pulmonary Function Test Filter

50

## Recommended Reading

1. Hedley RM, Allt-Graham J.

Heat and moisture exchangers and breathing filters.  
Br J Anaesth 1994, 73:227-236

2. Le Bourdelles G, Mier L, Fiquet B, et al.

Comparison of the effects of heat and moisture exchangers and heated humidifiers on ventilation and gas exchangers during weaning trials from mechanical ventilation.  
Chest 1996, 110:1294-1298

3. Ackerstaff AH, Hilgers FJ, Aaronson NK, et al.

Improvements in respiratory and psychosocial functioning following total laryngectomy by the use of a heat and moisture exchanger. Ann Otol Rhinol Laryngol 1993;102:878-83

4. Pelosi P, Solca M, Ravagnan I, et al.

Effects of heat and moisture exchangers on minute ventilation, Ventilatory drive, and work of breathing during pressure-support ventilation in acute respiratory failure. Crit Care Med 1996, 24:1184-1188 Br. J Anaesth, jan 1, 2003;90 (1): 1-3

5. Djedaini K, Billiard M, Mier L, et al.

Changing heat and moisture exchangers every 48 hours rather than 24 hours does not affect their efficacy and the incidence of nosocomial pneumonia. Am J Crit Care Med 1995, 152:1562-1569

6. Roustan JP, Kielan J, Aubas P, du Cailar J.

Comparison of hydrophobic heat and moisture exchangers with heated humidifier during prolonged mechanical ventilation. Intens Care Med 1992, 18:97-100

7. Thomachot L, Vialet R, Viguier JM, et al.

Efficacy of heat and moisture exchangers after changing every 48 hours rather than 24 hours. Crit Care Med 1998, 26:477-488

8. Conti G, Dr Blasi RA, Rocco M. et al.

Effects of the heat-moisture exchangers on dynamic hyperinflation of mechanically ventilated COPD patients. Intens Care Med 1990, 16:144-443

## References

1. Skerit S.J. Associate Professor of medicine, Division of pulmonary & Critical Care Medicine, University of Washington. Seattle, USA.

2. Kirton et al(1997) Aprospective Randomised comparison of an inline Heat and Moisture Exchanger filter and heated wire Humidifiers chest/112/4/October 1997

3. American Association of Respiratory Care AARC, Respiratory 1992; 887-890 (N.B There is no International Standard BS EN ISO 9360-1:2000

4. MDA Breathing Systems Evaluation 02069

# OXYGEN & AEROSOL THERAPY

## Fixed and Variable Concentration, Post Operative and Aerosol Therapy

Flexicare's Oxygen and Aerosol Therapy products include Variable Concentration Oxygen Masks, Fixed Concentration Oxygen Masks, Post Operative Oxygen Therapy, Nebulisers and Nebuliser Kits

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### Aerosol Therapy

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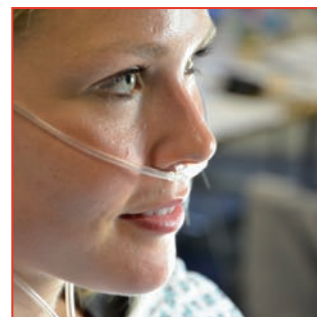
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MaxiNeb Compact \_\_\_\_\_ 110

Tubing, Connectors & Water Traps \_\_\_\_\_ 111

Humidity Adaptor \_\_\_\_\_ 112

Bubble Humidifier \_\_\_\_\_ 112





## Principles of Oxygen Therapy

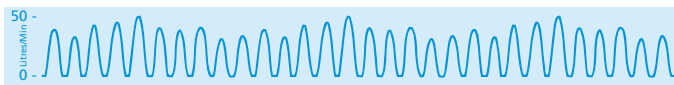
Oxygen is the most important single substance in animal biology. It constitutes nearly 50% of the mass of our planet, 21% of the air we breathe, 50% of rock and 89% of water. Yet it took man a surprisingly long time to discover the significance of oxygen in terms of combustion, respiration and animal metabolism. Oxygen is essential for normal respiration in aerobic organisms. Upon entering the lungs,  $O_2$  molecules dissolve in the lipid and aqueous phase of tissues and diffuses across alveolar membranes and into alveolar capillaries. The vast majority of oxygen is bound to haemoglobin and only a small fraction, less than 2% is dissolved in the plasma. Following the transport to various tissues, oxygen diffuses into the cells for metabolism.

### Oxygen Administration Methods

Oxygen therapy devices for the spontaneously breathing patient fall into two categories, Variable Performance and Fixed Performance.

#### 1. Variable Performance

These devices administer uncontrolled oxygen therapy, because the patient creates the inspired mixture by the act of breathing. Examples of these are nasal catheters, nasal cannulae and mask shells with or without a rebreathing bag (see pictures below). Various factors cause unpredictability in knowledge and control of inspired oxygen concentration when using these devices. Firstly, because the oxygen flow is less than the patient's inspiratory flow, the patient obtains some oxygen and some air, but in unknown proportion because normal breathing has an irregular pattern:



The resulting oxygen concentration varies not only on a breath by breath basis, but also from patient to patient. Secondly, the size of the mask, size and placement of the vents and fit of the mask to the face will cause variation in inspired oxygen concentrations.

#### Variable Performance Devices:



Low Capacity Mask Shell



Nasal Cannula



High Capacity Systems



Nasal Catheter

The disadvantage of using a variable performance device is that blood gas values cannot be easily interpreted since they only reflect performance variation of the mask/patient interface rather than a true change in the condition of the lungs under treatment.

#### 2. Fixed Performance

These devices allow controlled (known, fixed and selectable) oxygen dosage. They create a constant proportion of air/oxygen mixture in excess of patient inspiratory flow rate and are independent of patient factors or fit to the face. With gas flow constantly in excess of patient demand and with enhanced  $CO_2$  washout, rebreathing is virtually eliminated.

#### Fixed Performance Devices:

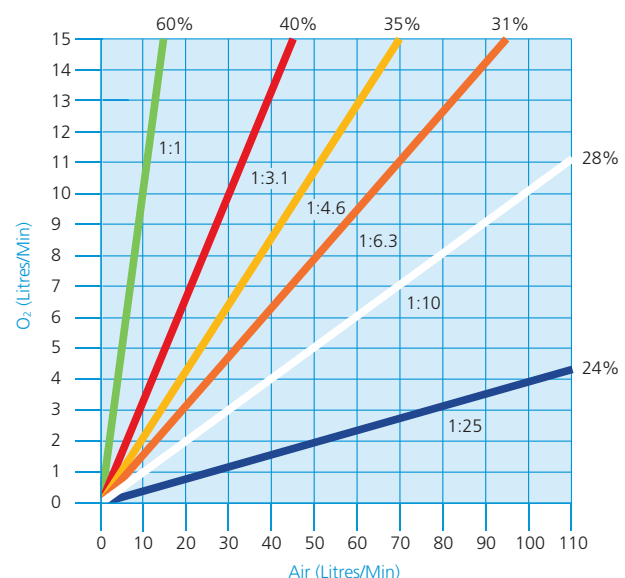


To work efficiently and to prevent air dilution a fixed performance device should incorporate:

- a) A large volume face piece (not less than 280ml)
  - b) Gas mixture flowing directly towards the nose and mouth
  - c) Vents positioned well away from the patient airway.
- Fixed performance devices are sometimes referred to as venturi or air entrainment masks.

#### Calculating total gas mixture flow rates

Using the mixture graph below, the total gas flow rate available to the patient can be assessed.



## Principles of Aerosol Therapy

**Medication Nebulisers** - also referred to as small volume or jet nebulisers (SVN) are devices used to turn medication into an aerosolized mist to deliver directly into the patient's lungs. Inhaled aerosols have considerable advantages in the treatment of many lung diseases including bronchitis and cystic fibrosis. The required dose is much smaller compared to that taken systemically and the side effects are therefore negligible. The onset of the action is quicker, and the drug itself is more selective.

**Nebuliser Performance** - Important characteristics of nebuliser performance include the aerosol particle size generated, drug output, nebulising time and the amount of drug delivered to the patient. Device construction, fill volume, flow temperature, humidity of the driving gas are factors affecting the performance of a nebuliser.

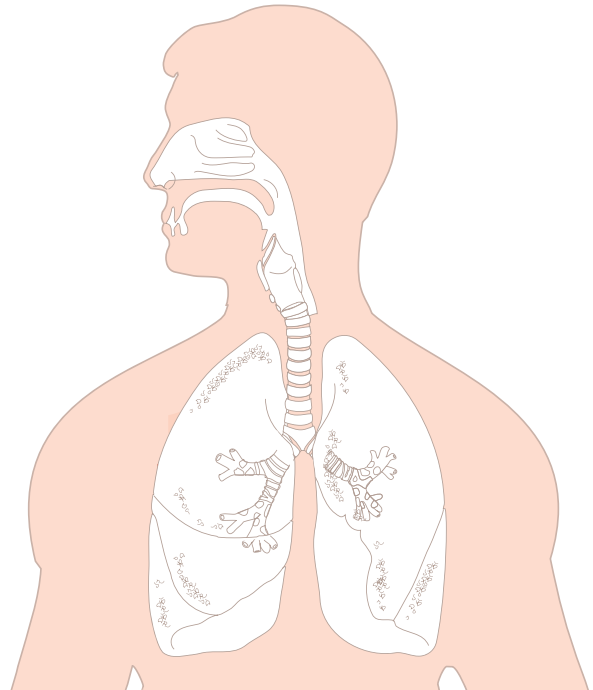
**Particle Size** is an important characteristic of nebuliser performance. Large particles do not reach the lower respiratory tract depositing themselves in the mouth, upper airways and gastric tract. Particles too small will not be taken up by the alveoli and are exhaled. Respirable particles taking part in lung deposition has been accepted to range from 0.5 microns to 5.0 microns in diameter size.

**Dead Volume** is the volume of medication not delivered to the patient during nebulisation and exists as the volume left in the nebuliser at the end of nebulisation.

**Respirable Mass** is the combination of aerosolized drug output and the percentage of particles in the respirable range. This is the amount of aerosolized drug available to the patient on inspiration.

**Reconcentration** in a SVN is greater at a diluent volume of 2ml than one of 4ml and for that reason it is suggested 4ml maybe superior than 2ml as a diluent formula.

**Nebulising Time** is the time from starting nebulisation until continuous nebulisation has ceased and depends on the flow rate, compressed air and the construction of the nebuliser. These are a major influence on aerosol size distribution. Optimal flow rates recommended are between 6-8 litres per minute, with 8 l/min providing a smaller particle size and shorter nebuliser time, the time it takes for the volume to completely nebulise. A SVN should deliver at least 80% of the solution within 15 minutes.



### Aerosol Particle Deposition

0.5 $\mu$ m> Exhaled	0.5-2 $\mu$ m> Alveoli Deposition	2-5 $\mu$ m Deposition in Trachea, Bronchus, Bronchioles	>5 $\mu$ m Deposition in Mouth, Pharynx

## Fixed Concentration

### Ventimask

Clinically Proven... "only Ventimask is able to provide a fixed and predictable oxygen concentration with changing and variable breathing patterns." Ventimask is the accepted standard for controlled oxygen therapy for exact oxygen concentration delivery, optimum clinical performance with greater patient acceptability.

### Ventimask®

#### Large Capacity

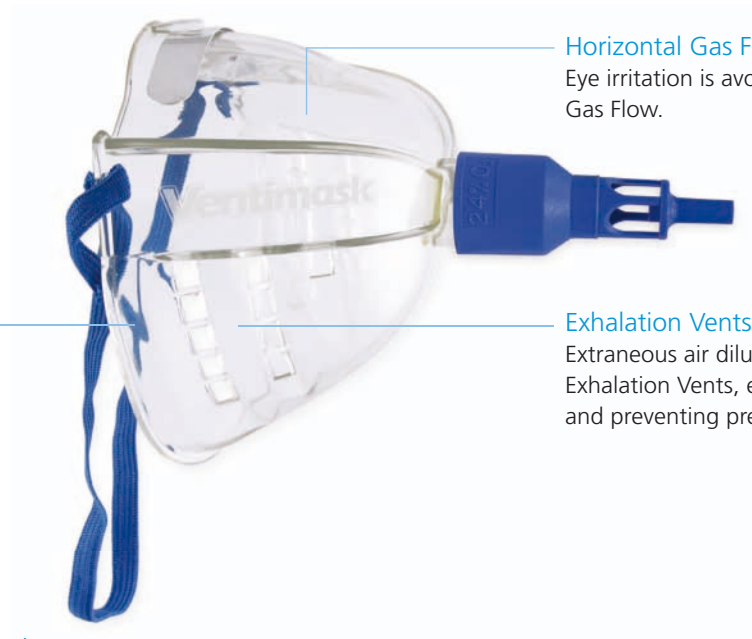
Air dilution is minimised due to large capacity 280ml face piece.

#### Soft and Flexible

The construction of the facemask ensures maximum comfort during sleep.

#### Latex Free Straps

Latex free elastic straps eliminate the risk of allergic reactions.



#### Horizontal Gas Flow

Eye irritation is avoided due to Horizontal Gas Flow.

#### Exhalation Vents

Extraneous air dilution is greatly reduced by Exhalation Vents, enhancing CO<sub>2</sub> washout and preventing pressure build up.

### Ventimask without Venturi Barrel

037-10-007	Ventimask no Venturi	50
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### Ventimask with Venturi Barrel



037-10-001	Ventimask with 24% Blue Venturi (2 litres/minute)	50
037-10-002	Ventimask with 28% White Venturi (4 litres/minute)	50
037-10-010	Ventimask with 31% Orange Venturi (6 litres/minute)	50
037-10-003	Ventimask with 35% Yellow Venturi (8 litres/minute)	50
037-10-004	Ventimask with 40% Red Venturi (10 litres/minute)	50
037-10-005	Ventimask with 60% Green Venturi (15 litres/minute)	50
037-10-006	Ventimask with 28% White Venturi in situ (2 litres/minute - for use at home)	40

### Ventimask O<sub>2</sub> Concentration Sets



037-10-008	Ventimask Low O <sub>2</sub> Concentration Set with 24%, 28%, 31% & 35% Venturies	50
037-10-009	Ventimask High O <sub>2</sub> Concentration Set with 40% & 60% Venturies	50

### Ventimask with 6 Venturies



037-10-012	Ventimask with 6 Venturies 24%, 28%, 31%, 35%, 40% & 60%	40
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## Fixed Concentration

### Single Venturi Masks







These masks, sometimes called High Air Flow Oxygen Enrichment (HAFOE) masks incorporate a Venturi Barrel and use the Bernoulli principle to deliver a predetermined and fixed concentration of oxygen. This is provided to the patient regardless of their respiratory pattern, y providing a higher gas flow than the peak inspiratory flow rate.









### Adult Venturi Masks

032-10-040	Adult Venturi Mask 24%		50
032-10-041	Adult Venturi Mask 28%		50
032-10-048	Adult Venturi Mask 31%		50
032-10-042	Adult Venturi Mask 35%		50
032-10-043	Adult Venturi Mask 40%		50
032-10-044	Adult Venturi Mask 60%		50







### Adult Venturi Masks with Tubing

032-10-040T	Adult Venturi Mask 24% with Tubing		50
032-10-041T	Adult Venturi Mask 28% with Tubing		50
032-10-048T	Adult Venturi Mask 31% with Tubing		50
032-10-042T	Adult Venturi Mask 35% with Tubing		50
032-10-043T	Adult Venturi Mask 40% with Tubing		50
032-10-044T	Adult Venturi Mask 60% with Tubing		50

### Paediatric Venturi Masks

032-10-050	Paediatric Venturi Mask 24%		50
032-10-051	Paediatric Venturi Mask 28%		50
032-10-058	Paediatric Venturi Mask 31%		50
032-10-052	Paediatric Venturi Mask 35%		50
032-10-053	Paediatric Venturi Mask 40%		50
032-10-054	Paediatric Venturi Mask 60%		50

### Paediatric Venturi Masks with Tubing

032-10-050T	Paediatric Venturi Mask 24% with Tubing		50
032-10-051T	Paediatric Venturi Mask 28% with Tubing		50
032-10-058T	Paediatric Venturi Mask 31% with Tubing		50
032-10-052T	Paediatric Venturi Mask 35% with Tubing		50
032-10-053T	Paediatric Venturi Mask 40% with Tubing		50
032-10-054T	Paediatric Venturi Mask 60% with Tubing		50

## Fixed Concentration

### Aerosol Masks, Multi Venturi Masks & Venturi Barrels

When the required concentration needs to change during oxygen therapy, the adult aerosol mask, with the choice of 6 venturies or a multi venturi mask kit will offer the choice to suit the individual patients requirements. The aerosol mask can be used with a nebuliser or 22mm corrugated tubing for combined oxygen therapy and humidification.



### Adult Aerosol Masks and Venturies

032-10-006	Adult Aerosol Mask	50
032-10-006SM	Small Adult Aerosol Mask	50
032-10-006NC	Adult Aerosol Mask with Nose Clip	50
032-10-026	Adult Mask with 2 Venturies 40% & 60%	50
032-10-027	Adult Mask with 2 Venturies 40% & 60% with Tubing	50
032-10-024	Adult Mask with 4 Venturies 24%, 28%, 35% & 40%	50
032-10-025	Adult Mask with 4 Venturies 24%, 28%, 35% & 40% with Tubing	50
032-10-028	Adult Mask with 6 Venturies 24%, 28%, 31%, 35%, 40% & 60%	50
032-10-028T	Adult Mask with 6 Venturies 24%, 28%, 31%, 35%, 40% & 60% with Tubing	50
032-10-028NC	Adult Mask with 6 Venturies 24%, 28%, 31%, 35%, 40% & 60% with Nose Clip	50

### Paediatric Aerosol Mask and Venturies







032-10-010	Paediatric Aerosol Mask	50
032-10-055T	Paediatric Mask with 6 Venturies - 24, 28, 31, 35, 40 & 60% with Tubing	50

### Venturi Barrels

034-10-026	Venturi Barrel 24% Blue	50
034-10-027	Venturi Barrel 28% White	50
034-10-032	Venturi Barrel 31% Orange	50
034-10-028	Venturi Barrel 35% Yellow	50
034-10-029	Venturi Barrel 40% Red	50
034-10-030	Venturi Barrel 60% Green	50
034-10-031	Blank Venturi (Oxygen Connector)	40







## Fixed Concentration

### Venturi Barrels with Reservoir Tube







034-10-026C	Venturi Barrel 24% Blue with Reservoir Tube		50
034-10-027C	Venturi Barrel 28% White with Reservoir Tube		50
034-10-032C	Venturi Barrel 31% Orange with Reservoir Tube		50
034-10-028C	Venturi Barrel 35% Yellow with Reservoir Tube		50
034-10-029C	Venturi Barrel 40% Red with Reservoir Tube		50
034-10-030C	Venturi Barrel 60% Green with Reservoir Tube		50









### Adult Venturi Masks with Reservoir Tubing

032-10-040C	Adult Venturi Mask 24% Blue with Reservoir Tube		50
032-10-041C	Adult Venturi Mask 28% White with Reservoir Tube		50
032-10-048C	Adult Venturi Mask 31% Orange with Reservoir Tube		50
032-10-042C	Adult Venturi Mask 35% Yellow with Reservoir Tube		50
032-10-043C	Adult Venturi Mask 40% Red with Reservoir Tube		50
032-10-044C	Adult Venturi Mask 60% Green with Reservoir Tube		50







### Adult Venturi Masks, Reservoir and Oxygen Tubing

032-10-040CT	Adult Venturi Mask 24% Blue with Reservoir Tube and Oxygen Tubing		50
032-10-041CT	Adult Venturi Mask 28% White with Reservoir Tube and Oxygen Tubing		50
032-10-048CT	Adult Venturi Mask 31% Orange with Reservoir Tube and Oxygen Tubing		50
032-10-042CT	Adult Venturi Mask 35% Yellow with Reservoir Tube and Oxygen Tubing		50
032-10-043CT	Adult Venturi Mask 40% Red with Reservoir Tube and Oxygen Tubing		50
032-10-044CT	Adult Venturi Mask 60% Green with Reservoir Tube and Oxygen Tubing		50

### Paediatric Venturi Masks with Reservoir Tubing

032-10-050C	Paediatric Venturi Mask 24% Blue with Reservoir Tube		50
032-10-051C	Paediatric Venturi Mask 28% White with Reservoir Tube		50
032-10-058C	Paediatric Venturi Mask 31% Orange with Reservoir Tube		50
032-10-052C	Paediatric Venturi Mask 35% Yellow with Reservoir Tube		50
032-10-053C	Paediatric Venturi Mask 40% Red with Reservoir Tube		50
032-10-054C	Paediatric Venturi Mask 60% Green with Reservoir Tube		50

### Paediatric Venturi Masks, Reservoir and Oxygen Tubing

032-10-050CT	Paediatric Venturi Mask 24% Blue with Reservoir Tube and Oxygen Tubing		50
032-10-051CT	Paediatric Venturi Mask 28% White with Reservoir Tube and Oxygen Tubing		50
032-10-058CT	Paediatric Venturi Mask 31% Orange with Reservoir Tube and Oxygen Tubing		50
032-10-052CT	Paediatric Venturi Mask 35% Yellow with Reservoir Tube and Oxygen Tubing		50
032-10-053CT	Paediatric Venturi Mask 40% Red with Reservoir Tube and Oxygen Tubing		50
032-10-054CT	Paediatric Venturi Mask 60% Green with Reservoir Tube and Oxygen Tubing		50



## Variable Concentration

### Medium Concentration Masks

The Venticare Medium Concentration Mask is a small capacity variable performance mask. At a flow rate of 6-8 litres/minute the Venticare MC Mask delivers an oxygen concentration of 40% to 50% depending on the patients breathing rate and tidal volume.

#### Easy Fit with Good Seal

The soft, pliable mask moulds easily to the patient's face. The feather rim provides maximum comfort to the patient.

#### Clear Observation of Face Colour and Vital Signs

The mask is made of colourless and transparent soft PVC to allow visual inspection.

#### Reduces Patients Eye Irritation

The angled O<sub>2</sub> Inlet directs oxygen into the nostrils, not upwards towards the eyes.

#### Nose Clip

Adult MC masks are also available with a nose clip. The products can be identified by an NC suffix.



#### Patient Comfort

The adult mask is offered with head strap or earloops. This will allow easy fitting of the mask to patients whose head movements need to be restricted.

#### Eliminate Risk of Patient Injury

The design of the plastic nose bridge eliminates the need for a metal nose bridge, thus eliminating the risk of injury to patients especially children.

#### Stepped Oxygen Inlet

Ensures easy and safe connections to oxygen tubing.

#### Swivel Connector

The swivel connector provides maximum patient comfort by allowing it to be rotated to the required position.

All masks are supplied with knitted latex free straps. The knitted strap maintains its width when stretched and this will reduce the pressure on patients skin and can protect patients from pressure sores.

### Adult MC Mask with Head Strap



032-10-001	Adult MC Mask with Head Strap	50
032-10-001SM	Small Adult MC Mask with Head Strap	50
032-10-002	Adult MC Mask with Head Strap and Tubing	50
032-10-002NC	Adult MC Mask with Head Strap, Tubing and Nose Clip	50

### Adult MC Mask with Earloops



032-10-013	Adult MC Mask with Earloops	50
032-10-014	Adult MC Mask with Earloops and Tubing	50
032-10-014NC	Adult MC Mask with Earloops, Tubing and Nose Clip	50

### Paediatric MC Mask with Head Strap



032-10-008	Paediatric MC Mask with Head Strap	50
032-10-009	Paediatric MC Mask with Head Strap and Tubing	50

## Variable Concentration

### Nasal Cannula & Nasal Catheter

Nasal Cannulae are used for their simplicity and patient convenience. There is entrainment of ambient air through the nostrils. The  $FiO_2$  achieved is proportional to a) the flow rate of oxygen (1-6 l/mni), b) the patients tidal volume, inspiratory flow rate, and c) the volume of the nasal pharynx.

At an oxygen flow rate of 2 l/min the oxygen concentration in the hypopharynx of a resting person is 25% - 30%. Nasal Cannula prevents Rebreathing and are comfortable for long periods.

There is increased patient compliance with nasal cannula as patients are able to speak, eat or drink. Local irritation and dermatitis may occur with high flow rates. Use of humidified oxygen is recommended to reduce dryness of the mucosal wall in the nasal cavities, particularly when using flows of greater than 4 l/min.



### Adult Nasal Cannulas



032-10-020	Adult Nasal Cannula	100
032-10-020FC	Adult Flared Curved Nasal Cannula	100
032-10-022	Adult Nasal Cannula with 2.1m Tubing	100
032-10-022FC	Adult Flared Nasal Cannula with 2.1m Tubing	100
032-10-107	Adult Flared Tip Nasal Cannula	100

### Soft Tip Curved Nasal Cannulas



032-10-101	Adult Soft Tip Curved Nasal Cannula with Tubing	100
032-10-102	Adult Soft Tip Curved Nasal Cannula	100
032-10-103	Paediatric Soft Tip Curved Nasal Cannula with Tubing	100
032-10-104	Paediatric Soft Tip Curved Nasal Cannula	100
032-10-105	Neonatal Soft Tip Curved Nasal Cannula with Tubing	100

### Nasal Cannulas with CO<sub>2</sub> Monitoring



032-10-108	Adult Nasal Cannula with CO <sub>2</sub> Monitoring	25
032-10-109	Adult Nasal Cannula with O <sub>2</sub> /CO <sub>2</sub> Combi Monitoring	25

### Soft Tip Nasal Cannulas



032-10-114	Adult High Flow Soft Tip Nasal Cannula with Tubing	100
032-10-115	Infant Soft Tip Nasal Cannula with Tubing	100
032-10-116	Premature Soft Tip Nasal Cannula with Tubing	100

## Dual Nasal Cannula - EtCO<sub>2</sub> Monitoring

### Capnography and CO<sub>2</sub> Monitoring

Monitoring patient's breathing in emergency and critical situations is of paramount importance. Delivering oxygen ensures the level of oxygen saturation in the blood is maintained and this sometimes is monitored and measured by a pulse oximeter.

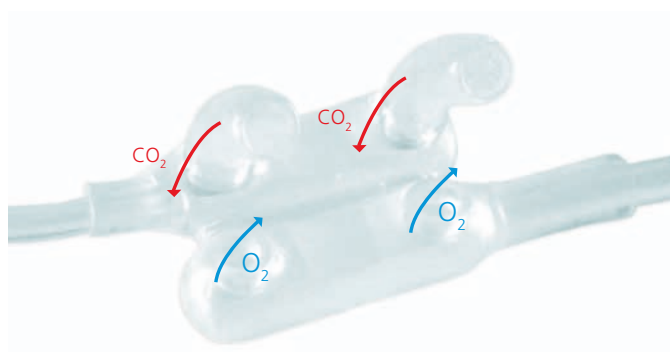
However, the pulse oximeter does not provide breath by breath patient ventilator status. Capnography is the vital sign of ventilation. By tracking the patient's expired CO<sub>2</sub> clinicians can evaluate the ventilation condition of the patient during critical emergency situations, and make the judgment to assess and treat the patient.

Capnography provides the following vital information:

- Hypo ventilation
- Hyperventilation
- Confirming, maintaining and assisting intubation
- Return of spontaneous circulation (ROSC)
- Measuring cardiac output during cardiopulmonary resuscitation (CPR)
- End tidal CO<sub>2</sub> as predictor of resuscitation outcome
- Monitoring sedated patients
- Ventilating head injury patients
- Perfusion warning sign
- EtCO<sub>2</sub> in asthma, chronic obstructive pulmonary diseases (COPD), and congestive heart failure (CHF)

### End Tidal CO<sub>2</sub> Monitoring & O<sub>2</sub> Delivery Cannula

The Dual nasal cannula is designed to provide oxygen to both nostrils and also sample CO<sub>2</sub> at the same time. The CO<sub>2</sub> sampling is taken from both nostrils and there is no risk of mixing with fresh oxygen as the patient's expiratory flow will divert fresh gas away from the sampling prongs.



**CO<sub>2</sub>** CO<sub>2</sub> is sampled from both nostrils for side stream CO<sub>2</sub> monitoring through the upper prongs.

**O<sub>2</sub>** Fresh oxygen is delivered to both nostrils via the lower prongs of the dual nasal cannula.

### Advantages:

- Excellent sampling accuracy as there are two end tidal CO<sub>2</sub> sampling ports
- Superior waveforms as Dual has two end tidal CO<sub>2</sub> sampling ports
- Reliable sampling under the following conditions:
  - Clogged Sinus' in one nostril
  - Deviated septum
  - Polyps
- Oxygen delivered in both nostrils at lower rate, thus minimizing mucosal wall damage
- Secure luer lock connection for both Male & Female connections
- Soft tip cannula provides superior patient comfort and nare positioning
- Non-kinking tube ensures consistent and accurate delivery
- Universal Oxygen connector is standard on all items

032-10-123	Dual Nasal Cannula, with CO <sub>2</sub> Monitoring and Male Pigtail Luer (2.1m)	50
032-10-124	Dual Nasal Cannula, with CO <sub>2</sub> Monitoring and Female Pigtail Luer (2.1m)	50
032-10-125	Dual Nasal Cannula, with CO <sub>2</sub> Monitoring and Male Luer (2.1m)	50
032-10-126	Dual Nasal Cannula, with CO <sub>2</sub> Monitoring and Female Luer (2.1m)	50
032-10-127	Dual Nasal Cannula, with CO <sub>2</sub> Monitoring and Male Luer (3m)	50
032-10-128	Dual Nasal Cannula, with CO <sub>2</sub> Monitoring and Female Luer (3m)	50
032-12-125	Dual Nasal Cannula Paediatric, with CO <sub>2</sub> Monitoring and Male Luer (2.1m)	50
032-12-126	Dual Nasal Cannula Paediatric, with CO <sub>2</sub> Monitoring and Female Luer (2.1m)	50
032-13-125	Dual Nasal Cannula Neonate, with CO <sub>2</sub> Monitoring and Male Luer (2.1m)	50
032-13-126	Dual Nasal Cannula Neonate, with CO <sub>2</sub> Monitoring and Female Luer (2.1m)	50

## Dual Mask - EtCO<sub>2</sub> Monitoring

### Capnography Mask

The Dual Oxygen Mask provides continual monitoring of carbon dioxide being exhaled from the mouth and nose whilst administering oxygen to the patient. The integrated oxygen and sampling line provides quick and simple operation.



#### Easy Fit with Good Seal

The soft, pliable mask moulds easily to the patient's face, whilst the feather rim provides maximum comfort to the patient.

#### Star Lumen Tubing, Secured Oxygen Delivery

Star Lumen Tubing, supplied with international standard conforming connectors, ensures that the flow of oxygen is maintained even if the tube is kinked.

#### Clear Observation of Face Colour

The mask is made of transparent soft PVC to allow visual inspection.

#### Nose Clip

Adult Dual masks are also available with a nose clip.

### Independently Tested

The Dual Mask from Flexicare has been proven to be the most efficient in sampling end tidal CO<sub>2</sub>.

An independent study<sup>1</sup> measured end tidal CO<sub>2</sub> in a simulated patient with EtCO<sub>2</sub> measured at the trachea and by the sampling mask.

032-10-130	Adult Dual Mask with CO <sub>2</sub> Monitoring - Female Connector	50
032-10-131	Adult Dual Mask with CO <sub>2</sub> Monitoring - Male Connector	50
032-10-132	Adult Dual Mask with CO <sub>2</sub> Monitoring and Filter - Female Connector	50
032-10-133	Adult Dual Mask with CO <sub>2</sub> Monitoring and Filter - Male Connector	50
032-10-134	Adult Dual Mask with CO <sub>2</sub> Monitoring and Nose Clip - Female Connector	50
032-10-135	Adult Dual Mask with CO <sub>2</sub> Monitoring and Nose Clip - Male Connector	50
032-10-136	Adult Dual Mask with CO <sub>2</sub> Monitoring, Nose Clip and Filter - Female Connector	50
032-10-137	Adult Dual Mask with CO <sub>2</sub> Monitoring, Nose Clip and Filter - Male Connector	50
032-10-138	Medium Adult Dual Mask with CO <sub>2</sub> Monitoring - Female Connector	50
032-10-139	Medium Adult Dual Mask with CO <sub>2</sub> Monitoring - Male Connector	50
032-10-140	Medium Adult Dual Mask with CO <sub>2</sub> Monitoring and Filter - Female Connector	50
032-10-141	Medium Adult Dual Mask with CO <sub>2</sub> Monitoring and Filter - Male Connector	50
032-10-142	Paediatric Dual Mask with CO <sub>2</sub> Monitoring - Female Connector	50
032-10-143	Paediatric Dual Mask with CO <sub>2</sub> Monitoring - Male Connector	50
032-10-144	Paediatric Dual Mask with CO <sub>2</sub> Monitoring and Filter - Female Connector	50
032-10-145	Paediatric Dual Mask with CO <sub>2</sub> Monitoring and Filter - Male Connector	50

<sup>1</sup> University Hospital of Wales, Heath Park, Cardiff. CF14 4XW

## Non Rebreathing Masks

### Non Rebreathing Mask

The Non Rebreathing Mask provides a high concentration of oxygen, whilst the reservoir bag allows for adequate oxygen to be available in order to meet unpredictable patients breathing patterns and tidal volumes.



#### Reduced Risk of Patient Trauma

The elasticated earloop bands on the adult mask eliminate the need for the patients head to be moved to apply the mask, reducing the risk of further injury to the traumatized patient.

#### Latex Free

Eliminates the risk of allergic reaction.

#### Ease and Speed of Fitting the Mask

The swivel connector allows the mask to be fitted swiftly with the connector being rotated to suit the patient's position.

#### Reduced Risk of Bag Occlusion

The castellation on the swivel connector ensures the flow of oxygen from the bag to the patient is uninterrupted.

#### Star Lumen Tubing, Secured Oxygen Delivery

Star Lumen Tubing, supplied with international standard conforming connectors, ensures that the flow of oxygen is maintained even if the tube is kinked.

### Adult Non Rebreathing Mask with Earloops

032-10-070	Adult Non Rebreathing Mask with Earloops and Tubing	50
032-10-071	Adult Non Rebreathing Mask with Earloops	50

### Adult Non Rebreathing Mask with Head Strap

032-10-072	Adult Non Rebreathing Mask with Head Strap and Tubing	50
032-10-072NC	Adult Non Rebreathing Mask with Head Strap, Tubing and Nose Clip	50
032-10-073	Adult Non Rebreathing Mask with Head Strap	50

### Paediatric Non Rebreathing Mask

032-10-072SM	Small Adult Non Rebreathing Mask with Head Strap and Tubing	50
032-10-080	Paediatric Non Rebreathing Mask and Tubing	50
032-10-081	Paediatric Non Rebreathing Mask	50



## Tracheostomy Masks & T-Pieces

### Tracheostomy Mask & Humidifier

Tracheostomy masks are provided with a stud button non latex strap with a 360° swivel connector for maximum patient comfort. The 22mm Connector allows for connection to corrugated tubing and providing humidified oxygen when used with a venturi and humidifier adaptor.



ThermoTrach™ is a heat and Moisture Exchanger (HME) for spontaneous breathing patients, for use with a tracheostomy tube. For further details on this product please see the Breathing Filters section.

032-10-091	Adult Tracheostomy Mask	50
032-10-092	Paediatric Tracheostomy Mask	50
038-41-250	ThermoTrach Heat and Moisture Exchanger	50

### Gilston T-Piece

The Gilston T-Piece is designed to provide oxygen to patients with tracheostomy tubes. The sliding cover allows easy access for suction and a venturi can be fitted to one end of the tube to provide oxygen at the required concentration or combined with a humidity adaptor for humidification.



5060	Adult Gilston T-Piece	5
5061	Paediatric Gilston T-Piece	5

## Post Operative

### Post Operative Oxygen Therapy T-Pieces

Oxygen T-Pieces are used for delivering oxygen in the recovery room to patients with a laryngeal mask in situ.



The 40% T-Piece is clinically tested for oxygen concentration accuracy giving confidence in providing the precise level of oxygen prescribed. The T-Piece is crystal clear and available with a clear bag allowing for visual observation confirming breathing function. The 40% T-Piece complies to British Standard BS EN 13544-3 assuring compatibility with standard connectors.

032-10-540	40% Oxygen T-Piece with Corrugated Tube	50
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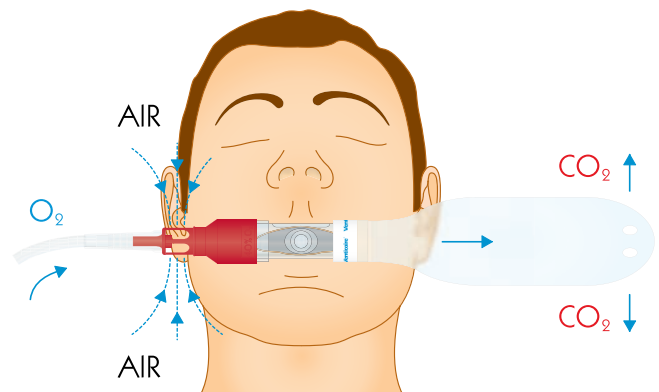
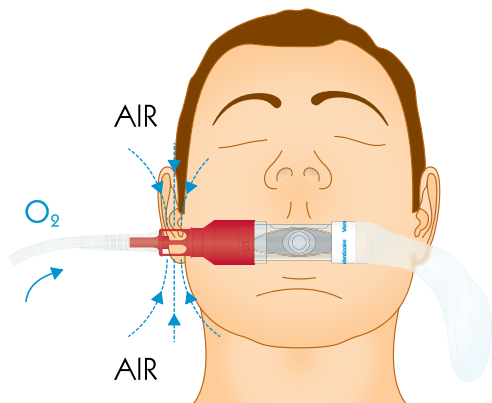
## Post Operative

### FCOT - The Complete Solution Post Op FCOT 40% Fixed Oxygen Delivery

The 40% (red) venturi delivers the fixed concentration irrespective of oxygen flow rate and patient breathing pattern providing the recommended level of oxygen concentration helping in fast post operative wound healing therefore reducing the risk of infection.

#### No Rebreathing or Oxygen Dilution

The high flow of oxygen enriched air (40%) flushes the expired gases through the vents on the bag eliminating the risk of rebreathing. During inspiration the bag collapses preventing any dilution

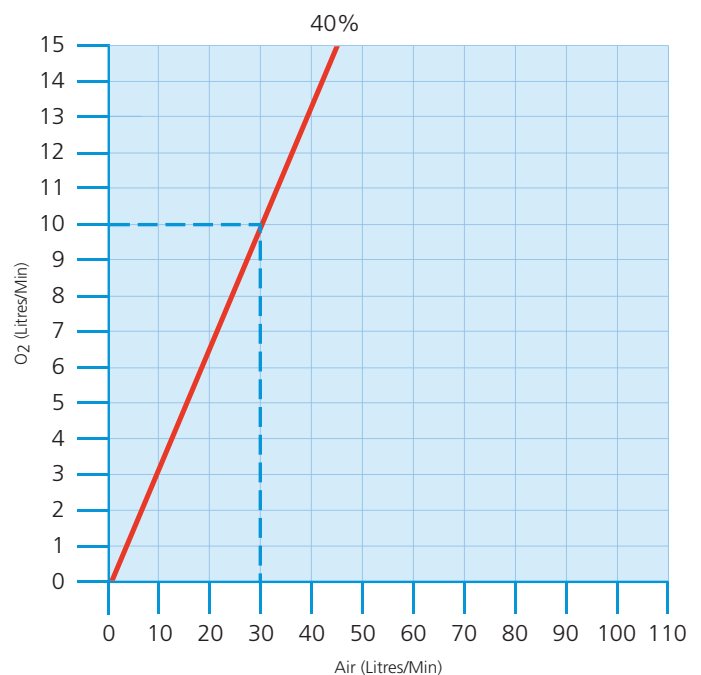
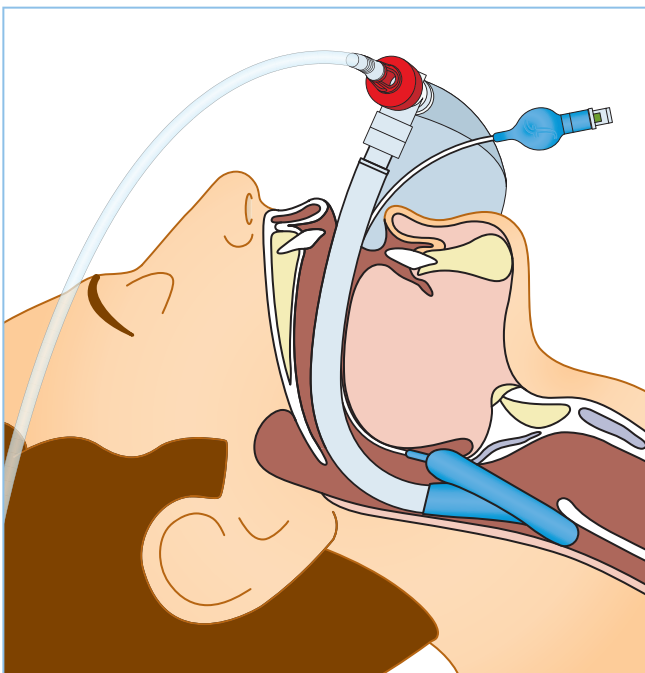


#### Visual Observation Of Spontaneous Breathing

The mist formation on the T-piece and bag inflation/deflation provides a visual observation.

#### Cost Effective

The complete kit of 40% T-piece bag, Mask and Star Lumen Tubing provides a cost effective solution.



Total Flow rate = 10 litres O<sub>2</sub> + 30 litres entrained air = 40lpm at 40% O<sub>2</sub>

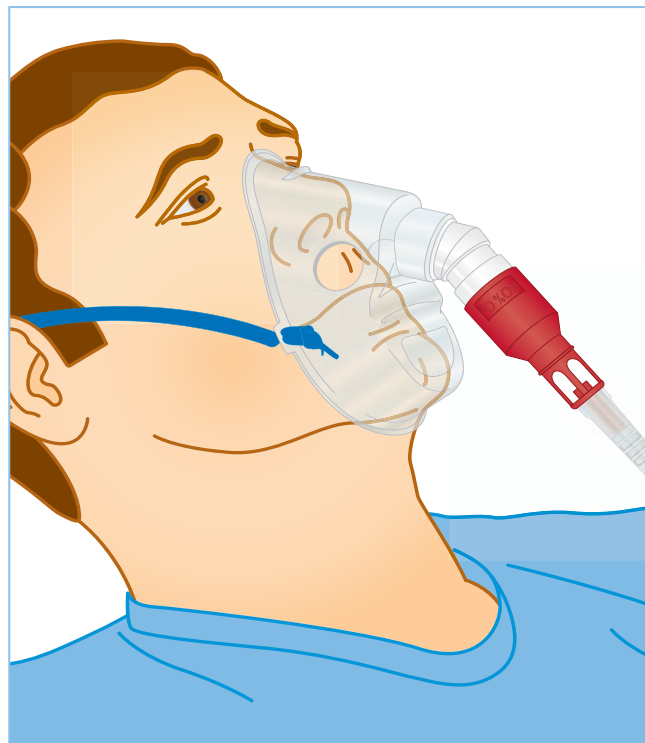
## Post Operative

### Recovery Room And Ward

Flexicare's FCOT™ is used with a Laryngeal mask in the recovery room. There after the mask included within the kit can be used for continuation of fixed concentration oxygen therapy.

Controlled oxygen delivery at 40% has been proven to shorten recovery time, enhance wound healing by reducing the risk of infection and reduced patient nausea when administered post operatively. 40% High Air Flow Oxygen Enrichment (HAFOE) fixed concentration oxygen establishes  $\text{SaO}_2$  and provides a constant oxygen saturation.

Exposure to higher levels of oxygen above 60% for prolonged periods can cause hypoxemia and lead to acidosis due to hypoventilation which occurs in most patients just after general anaesthesia. Hypoxemia has been shown to be deleterious in terms of resistance to infection, wound healing and anastomotic integrity. 40% Oxygen is clinically proven to be the most effective in providing effective oxygen tension within haemoglobin.



FCOT provides a complete solution for post operative controlled oxygen therapy at 40% which can be used with all Laryngeal Masks, for spontaneous breathing adult and paediatric patients.

Oxygen is delivered to the patient at a predetermined 40% through the venturi barrel using a flow rate of 10 Lpm from the supply source and creating an overall flow rate at the patient end of 40 Lpm ensuring that there is no dilution of the prescribed concentration on inspiration.

During the inspiratory phase, the indicator bag deflates preventing dilution as well as providing clearly visible signs of breathing. Upon expiration the gases are flushed through the indicator bag quickly and filled again with 40% oxygen for the next breath.

FCOT is designed to continue with the patient after removal of the supraglottic airway and deliver fixed concentration via an oxygen mask during the remainder of the recovery period ensuring that the concentration is not changed. This is critical for patients who have undergone a major surgery where the recommendation is to continue post-op oxygen therapy for a further 3 days.

032-10-640	FCOT T-Piece with Indicator Bag	50
032-10-740	FCOT T-Piece with Indicator Bag, Aerosol Mask and 2.1m Oxygen Tubing	50
032-10-740A	FCOT KIT T-Piece with Indicator Bag, Aerosol Mask and 3m Oxygen Tubing	50
032-10-741	FCOT T-Piece with Indicator Bag, Paediatric Aerosol Mask and 2.1m Oxygen Tubing	50

## Aerosol Therapy

### MaxiNeb Nebuliser

MaxiNeb is a high output nebuliser which delivers medication quickly and efficiently. In comparing the performance of nebulisers for Dead Volume, Nebulising Time, MMAD and percentage of aerosol mass in the respirable range, MaxiNeb performed among the most efficient in each of these categories.



#### Patient Choice

22mm connector allows MaxiNeb to be connected to either an aerosol mask or mouth piece providing users choice of delivery. A 17.5mm version is also available.

#### Easy Dilution

The chamber has clearly visible graduation marks to facilitate easy dilution of drugs as necessary.

#### Stable Stand Design

The wide legs of the MaxiNeb provides a stable upright position.



#### Anti-Spill Cap

The easy 1/4 turn closing design of the cap provides confidence in a secure seal whilst also incorporating a large 10ml reservoir to reduce the risk of spillage.

#### Clear Construction

Allows clinicians to view the nebulisation of the drug and provides visual assurance of the functioning device.

### Specifications

- Low Dead Volume chamber (0.7ml), which reduces the wastage of drugs
- Nebulisation time as low as 3 minutes 16 seconds <sup>5</sup>
- Anti-Spill Design, prevents loss of drug in the event of knock over
- Highly efficient nebuliser capable of operating at angles up to 45°
- Quarter turn cap, easily operated by all ages in all settings
- Large chamber capable of holding up to 10ml of the selected drug
- Clear chamber with graduation markers to allow for quick and easy dilution

MaxiNeb complies with the provision prescribed in ISO 5356-1, and is suitable for use with all complying aerosol masks and T-piece designs.

### MaxiNeb Nebuliser



032-10-003	MaxiNeb Nebuliser	50
032-10-004	MaxiNeb Nebuliser with T-Piece and Mouthpiece	50
032-10-005	MaxiNeb Nebuliser with T-Piece, Mouthpiece and Tubing	50
032-10-007	Adult Aerosol Mask, MaxiNeb and Tubing	50
032-10-007NC	Adult Aerosol Mask, Nose Clip, MaxiNeb and Tubing	50
032-10-011	Paediatric Aerosol Mask, MaxiNeb and Tubing	50

<sup>1</sup> Trudell Medical International, Canada. Aerosol Laboratory Report, July 2011.

<sup>2</sup> Albuterol Sulphate Inhalation Solution 2.5mg/3ml equivalent to 0.83mg/ml albuterol (Cobalt Laboratories Inc. FL Pulmicort Nebuamp 0.5mg/ml budesonide suspension for inhalation (AstraZeneca Canada Inc.). Ratio-Ipratropium UDV, (250mcg/1ml)(Ratiopharm inc, Canada).

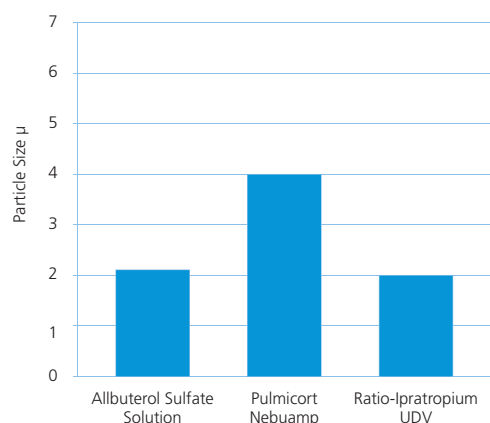
<sup>3</sup> Trudell Medical International, Canada. Aerosol Laboratory report July 2011. Actual particle range 0.98 to 5.39

<sup>4</sup> Surgical Materials testing laboratory, Bridgend, CF31 1RQ UK. May 2011.

<sup>5</sup> Surgical Materials testing laboratory, Bridgend, CF31 1RQ UK. May 2011. Result using fill volume of 2ml of 1% sodium fluoride. Flow rate set at 7 litres per minute.

# Aerosol Therapy

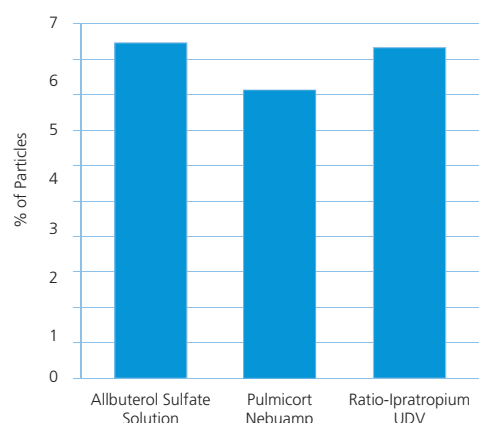
Mass Median Average Diameter (MMAD)



The chart shows an independent comparison of the MMAD of the MaxiNeb Nebuliser when tested with three different drugs.<sup>1,2</sup>

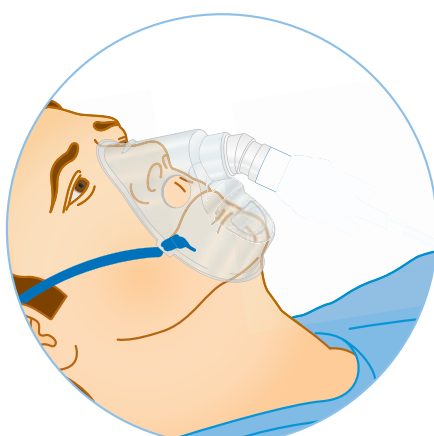
The MMAD of MaxiNeb can be seen to be consistently within the accepted respirable mass range of 1 to 5 μ (microns).

% Particles in Respirable Range



The chart shows the percentage of particles falling within the respirable mass range of 1 to 5 μ (microns).

MaxiNeb has the highest percentage of particles falling in the respirable range. MaxiNeb has been independently proven to produce a MMAD of 4.1μ with over 60% of aerosol particles being less than the maximum respirable particle size of 5μ.



MaxiNeb 90

## MaxiNeb 90

Features all the same benefits as MaxiNeb but can be used when the patient is lying flat without inhibiting nebulisation.



MaxiNeb

## MaxiNeb 90 Nebuliser



032-10-015	Maxineb 90 Nebuliser	50
032-10-016	Adult Aerosol Mask, Maxineb 90 Nebuliser and Tubing	50
032-10-017	Paediatric Aerosol Mask, Maxineb 90 Nebuliser and Tubing	50

## MaxiNeb Accessories



032-10-064	22mm Mouthpiece	100
010-636	T-Piece	100
032-10-065	22mm Mouth Piece and T-Piece	100
032-10-120	In-line valve for use with MaxiNeb Nebuliser	100

## Aerosol Therapy

### MaxiNeb and MaxiNeb Compact Compressors

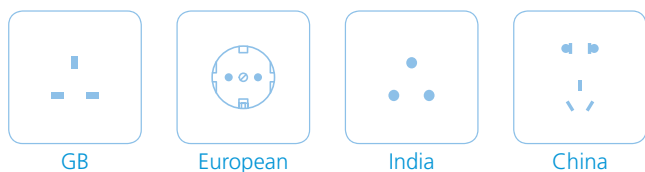
The Maxineb Compressors have been developed to provide a complete system in both hospital and home for the delivery of different medications.



Specifications:

Electrical Requirements	220v 50Hz
Power Consumption	0.6A Under Normal Load
Compressor Power Range	35~45 psi
Flow Range	5~7 LPM
Particle Size	0.5µm to 5µm

Available for the following countries/formats:



### MaxiNeb Compressor



60022GB	MaxiNeb Compressor - British Plug (9R619001)	1
60022EU	MaxiNeb Compressor - European Plug (9R619002)	1
60022IN	MaxiNeb Compressor - Indian Plug	1
60022CH	MaxiNeb Compressor - Chinese/Australian Plug	1
60001	Replacement Filter for all Compressor Variations	5

### MaxiNeb Compact



60122GB	MaxiNeb Compact Compressor - British Plug (9R619001)	1
60122EU	MaxiNeb Compact Compressor - European Plug (9R619002)	1
60122IN	MaxiNeb Compact Compressor - Indian Plug	1
60122CH	MaxiNeb Compact Compressor - Chinese/Australian Plug	1

### MaxiNeb

#### Clear Instructions

In addition to the User Manual, the operational information is visible through the clear case construction for quick reference.

#### Quiet Operation

The modern design of the housing facilitates a low noise level output, minimising the ambient noise and reducing irritation to the user.

#### Changeable Air Filter

MaxiNeb has an interchangeable filter that is easily changed.

#### Integrated Compartment

The MaxiNeb compressor has a dedicated compartment to safely store the nebuliser and accessories, ensuring that all the necessary items are at hand when required.

### MaxiNeb Compact

#### One Piece Uni Enclosure Sealed Design

No compartments or openings therefore reducing size.

#### Positive On and Off Switch

The rocker design of the switch allows patients with less dexterity to easily operate the compressor.

#### Portability

Integrated handle allows for easy transportation.

#### Replaceable Filter

Side located air filter can be changed as required.

#### Sleek Finish Casing

Easy to clean finish with minimal crevices to harbour bacteria.

#### Operational Benefits

The MaxiNeb Compressor is quiet when in use and produces 8 lpm, providing optimal output to the nebuliser to deliver the drug. Each MaxiNeb Compressor is supplied with all the essential items comprising of: MaxiNeb Compressor, MaxiNeb Nebuliser, Aerosol Mask, Mouthpiece, Star Lumen Tubing and Instructional Manual.

## Aerosol Therapy

### Tubing, Connectors & Water Traps

There is a wide range of oxygen tubing, corrugated tubing, water traps, T-Pieces and accessories to provide maximum flexibility for clinicians to customise devices to meet the specific needs of patients.



### Star Lumen Tubing



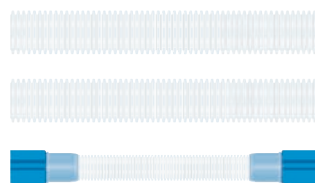
032-10-060	Star Lumen Oxygen Tubing with connectors 2.1m	100
032-10-063	Star Lumen Oxygen Tubing with one narrow and one wide connector - 2.1m	100
032-10-059	Star Lumen Oxygen Tubing - 100m	1

### Oxygen Bubble Tubing



032-10-069	Oxygen Bubble Tubing - 1.8m	100
032-10-067	Oxygen Bubble Tubing (3mm) 30m coil in dispensing box	1
032-10-068	Oxygen Bubble Tubing (3mm) 100m coil in dispensing box	1

### Corrugated Tubing



038-01-226	22mm Corrugated Tubing with 45cm repeat, 50m coil in dispensing box	1
038-01-228	22mm Corrugated Tubing with 15cm repeat, 50m coil in dispensing box	1
038-01-230	22mm Corrugated Tubing 2m with two 22mm female connectors	50

### Water Traps



010-650	Adult Self Sealing Water Trap	10
020-650	Paediatric Self Sealing Water Trap	10

### Tubing Connections



032-10-117	Oxygen Tubing T Connector	25
032-10-118	Oxygen Tubing Right Angled Connector	25
032-10-119	Oxygen Tubing Straight Connector	25
032-10-110	Oxygen Tubing Swivel Connector	25
032-10-111	Oxygen Tubing Swivel Connector with Clip	25



Humidity Adaptor

Normally, enough moisture is present in ambient air entrained into a venturi barrel to provide sufficient humidification. Patients however, with thick mucous secretions in the airway, undergoing controlled oxygen therapy may require additional humidification.



To provide this a humidity adaptor has to be attached to the venturi barrel, with the open end away from the mask and connected to either a large volume nebuliser or humidifier. When oxygen is delivered at a flow rate of 1-4 l/min by mask, nasal cannula or nasal catheters, the oropharynx or nasopharynx provide adequate humidification. At a higher flow rate or when oxygen is delivered directly to the trachea, humidification is necessary.

Ultimately it might be necessary to increase the moisture content of the inspired gases in order to prevent the possible detrimental effect of dry gases on the airway structure. The humidity adaptor fixes over a venturi barrel as normal.

The adaptor has a 22mm arm which is connected to a humidifier via 22mm corrugated (elephant) tubing. Humidified air is transported from the bubble humidifier or heated humidifier to the humidity adaptor, then it is mixed with fixed concentration oxygen. This is the most accurate method of giving Fixed Concentration Humidified Oxygen to the patient.

5506	Humidity Adaptor 22mm	10
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Bubble Humidifier

Oxygen is a dry gas, when it is delivered in excess of 4 l/min or when using a Nasal Cannula it is recommended that oxygen is humidified to prevent damaging the respiratory tract. Bubble humidifiers are used to provide humidified oxygen (cold humidification) to patients both in hospital and at home.

Safety Pressure Valve

The pressure valve automatically opens at 6psi / 4psi should the outlet line occlude.

PVC Nipple Diffuser

For home use the PVC nipple diffuser extends the life of the humidifier and eliminates the clogging of the diffuser apertures.

Recessed Connector with Screw Cap

Protecting the connector from accidental breakage.

Increased Humidification

The fine diffuser at the end of the inlet tube produces very small bubbles of gas, thus increasing contact surface providing maximum humidity picked up by the bubbles. At the same time the tiny bubbles produce very low noise unlike larger bubbles, helping the patient rest.



032-10-090	Bubble Humidifier with PVC Diffuser - 300ml, 6psi (recommended for home use)	20
032-10-089	Bubble Humidifier with Fine Diffuser - 400ml, 4psi (recommended for hospital)	20

# RESUSCITATION

Single Patient Resuscitation Bags, Reusable Silicone Resuscitation Bags and Pocket Resuscitation Masks  
Single Patient Use and Reusable Resuscitators for Adults, Paediatrics and Neonatals

Single Patient Resuscitation Bags \_\_\_\_\_ 115

Reusable Silicone Resuscitation Bags \_\_\_\_\_ 116

Pocket Resuscitation Masks \_\_\_\_\_ 117

Emergency Packs \_\_\_\_\_ 118



## Resuscitation Bags

### Advanced Airway Management

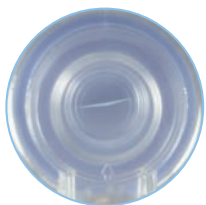
Advanced, effective airway management will ventilate the patient's lungs providing the highest possible oxygen concentration levels – achieving 95% to 100%. Flexicare offers a full range of single patient use and reusable resuscitator bags in three sizes of Adult, Paediatric & Neonatal. All products are supplied complete with mask, reservoir bag and star lumen oxygen tube ready to use in a sealed transparent bag with easy tear-off opening. This will save valuable time in emergencies and critical situations.

### Oropharyngeal Airways (Guedel)

These may be used as an adjunct to Bag-Valve-Masks on unconscious patient's in order to depress the tongue and establish and maintain the patency of the upper airway. Flexicare offer a full range of Oropharyngeal Airways in sizes 000 through to Adult Size 4.

### Product Specifications for Flexicare Resuscitation Bags:

	Adult	Paediatric	Neonatal
Dead Space (Mask and Valve)	168ml	113ml	46ml
Pressure Relief Valve	60 ± 10cm H <sub>2</sub> O	40 ± 5 cm H <sub>2</sub> O	40 ± 5 cm H <sub>2</sub> O
Resuscitator Bag volume	1500ml	550ml	280ml
Oxygen Reservoir Bag Volume	2500ml	2500ml	600ml
Stroke Volume	800ml (1 hand) 1350ml (2 hands)	350ml	100ml
Maximum Breath per Minute (BPM)	45 BPM	105 BPM	98 BPM
Mask Size	5	3	1
Oxygen Tube	3.0m Star Lumen Tubing	3.0m Star Lumen Tubing	3.0m Star Lumen Tubing



#### Reduced Risk of Patient Rebreathing

The integrated duck bill design of the non-return valve prevents patients exhaled gases to enter the resuscitator bag, providing one way flow of fresh gas from the bag to the patient.



#### Eliminate Lung Over Inflation

The Pressure Relief Valve supplied with all bags opens at 60cm H<sub>2</sub>O for adults. The paediatric and neonatal valve opens at 40±5 cm of H<sub>2</sub>O. The pressure relief valve can be locked when increased pressure is required. The adult size is also available without a pressure relief valve.



#### User Mobility

An integrated Double Swivel Connector allows the Resuscitator bag to be rotated fully through 360° without the need to stop bagging the patient and providing the most convenient position for the resuscitator.



#### Positive Grip

The outer textured surface of the Resuscitator Bags provides a positive grip during resuscitation. The design of the bags allow for ease of manual ventilation with least resistance and minimal hand fatigue.

#### Supplementary Oxygen

The bags can be connected to an oxygen source to deliver supplemental oxygen. Oxygen concentration is dependant on flow rate, frequency and tidal volume delivered to the patient.

#### Space Saving Design

The Adult Resuscitator is supplied fully assembled in a collapsible space saving format, which is easily and quickly extendible for patient use.

## Single Patient Resuscitation Bags

### Resuscitators - Single Use

Our Single Use Resuscitator Bags are designed for manual ventilation of patients. The ready-to-use pack allows for speed and efficiency during the early critical stages of CPR.

#### Adult Single Use Resuscitator Bag



038-71-840	Adult Single Patient Use Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag	5
038-71-841	Adult Single Patient Use Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag (without pressure relief valve)	5

#### Paediatric & Neonatal Single Use Resuscitator Bag



038-72-840	Paediatric Single Patient Use Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag	5
038-73-840	Neonatal Single Patient Use Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag	5

#### Resuscitator Pack



038-71-845	Resuscitation Pack - Adult, Paediatric and Neonatal Single Patient Use Resuscitator Bag with Masks, Oxygen Lines and Reservoir Bags	1
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## Reusable Silicone Resuscitation Bags

### Adult Silicone Resuscitator Bag



038-71-850	Adult Silicone Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag	5
038-71-851	Adult Silicone Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag (without pressure relief valve)	5

### Paediatric & Neonatal Silicone Resuscitator Bag



038-72-850	Paediatric Silicone Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag	5
038-73-850	Neonatal Silicone Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag	5

### Resuscitator Pack



038-71-855	Resuscitation Pack - Adult, Paediatric and Neonatal Silicone Reusable Resuscitator Bag with Masks, Oxygen Lines and Reservoir Bags	1
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### Resuscitator Accessories

038-71-857	Reservoir Bag and Oxygen Line for Adult and Paediatric Silicone Resuscitators	1
038-73-857	Reservoir Bag and Oxygen Line for Neonatal Silicone Resuscitators	1

## Resuscitation

### Single Patient Use Packaging



- Easy carry handle
- Clear for visual inspection before use.
- Tamper proof tabs

### Optional Reusable Packaging



- Robust storage box
- Clear for visual inspection before use
- Secure click lock lid and carry handle

## Pocket Resuscitation Mask

Protect Patients against Cross Contamination with the Flexicare Single Patient Use Resuscitator Mask.

### Secure Durable Carrying Case

Mask carefully protected until required - easy open release catch with printed easy-to-follow instructions.

### Non-return Valve

This prevents reflux contamination whilst allowing gas escape through side vents.

### Integrated Bacterial / Viral Filter

Protects both patient and resuscitator.

### Pre-filled Cushion

The pre-filled cushion provides maximum seal.

### Latex Free Strap

Assists in maintaining mask in secure position & eliminates risk of Latex reaction.

### Built in Oxygen Line Port with Cap

Allows connection of oxygen if required - no need to change mask during transportation.





## Emergency Packs

### Custom Emergency Packs

Flexicare can provide customised Emergency packs based on your individual resuscitation needs. For further details please contact us with your requirements.

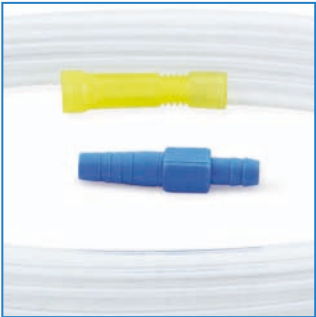


# SUCTION

## Sterile Suction Tubing, Suction Catheters and Suction Yankauers

The Flexicare range of Sterile Suction Tubing is made of PVC with Peel Pouch Sterile Packaging for easy opening and placing in sterile areas. Positive Ribbed Connectors provide secure connection with spare Male/Male connector also included.

Sterile Suction Tubing	120
Suction Catheters	121
Suction Yankauer	122



## Sterile Suction Tubing

### Suction Tubing

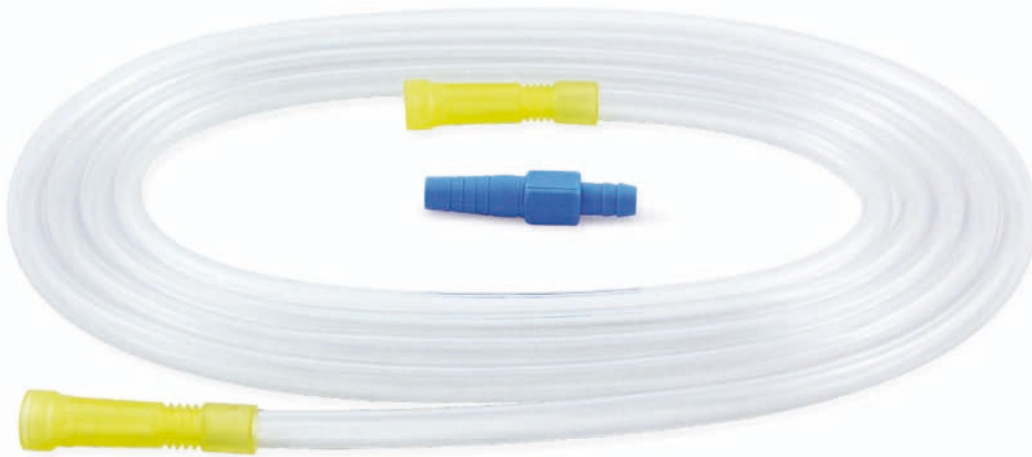
Flexicare offers a wide range of Suction Tubing, with internal diameters (ID) from 5mm to 7mm and lengths from 2m through to 30m rolls.

### Clear Non-Coiling PVC

The wall thickness prevents the tube from collapsing when the tube is used under high negative pressure.

### Peel Pouch Sterile Packing

All sterile suction connecting tubes are supplied double wrapped, with a non-stick inner bag and outer easy to open peel pouch.



### Universal Female Connector

The rib design elastomeric connectors provide secure connection to adaptors and catheters. Connectors are colour coded for ID size.

Yellow = 7mm Green = 6mm Blue = 5mm

### Spare Male - Male Connector

All sterile suction connecting tubes are supplied with one spare Male-Male connector for connection to Female connectors in suction catheters or for connecting two tubes should extended length be required.

### Suction Bubble Tube

The suction bubble tube is available in 5mm and 7mm ID with 1m bubble repeat. The product is supplied in a 100m coil dispensing box.



1020-25	7mm ID Suction Tube Sterile, 2m with Yellow F/F Connector	●	25
1020-6	6mm ID Suction Tube Sterile, 2m with Green F/F Connector	●	25
1024-25	7mm ID Suction Tube Sterile, 2.4m with Yellow F/F Connector	●	25
1027-25	7mm ID Suction Tube Sterile, 2.7m with Yellow F/F Connector	●	25
1030-25	7mm ID Suction Tube Sterile, 3m with Yellow F/F Connector	●	25
1030-5	5mm ID Suction Tube Sterile, 3m with Blue F/F Connector	●	25
1030-6	6mm ID Suction Tube Sterile, 3m with Green F/F Connector	●	25
1035-25	7mm ID Suction Tube Sterile, 3.5m with Yellow F/F Connector	●	25
1037-25	7mm ID Suction Tube Sterile, 3.7m with Yellow F/F Connector	●	25
10830-5	Suction Tube 30m coil, 5mm ID with bubble non conductive		1
10830-7	Suction Tube 30m coil, 7mm ID with bubble non conductive		1

## Suction Catheters

### Suction Catheters

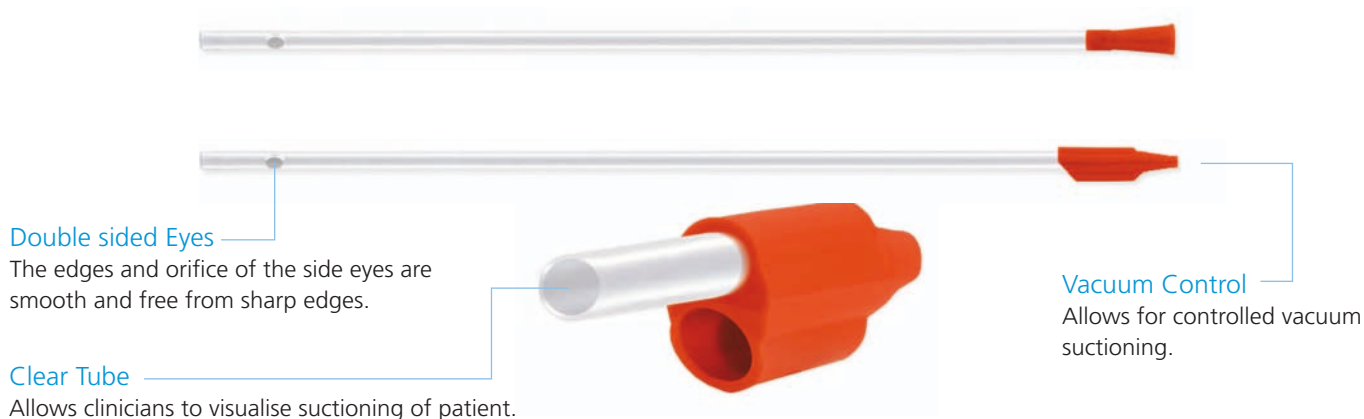
The Suction Catheters include Standard and Vacuum Controlled. The range is essentially designed for Oral, Tracheal and Endobronchial suction implementation, and will connect to the suction source via Flexicare's Suction Tubing.

#### Smooth Tip

The Tip at the patient end of the suction catheter is rounded to reduce risk of injury.

#### Smooth Main Tube

The smooth surface of the suction Catheter facilitates easy insertion through all types of plastic, rubber and metal oral and nasal tracheal tubes, tracheostomy tubes, and appropriate connectors.



### Specifications

Designated Size		Inside Diameter (mm)	Colour Identification	
French (Charriere)Equivalent (F)	Nominal Outside Diameter (mm)			
6	2.00	1.00	Light Green	
8	2.67	1.75	Light Blue	
10	3.33	2.00	Black	
12	4.00	2.45	White	
14	4.67	2.95	Dark Green	
16	5.33	3.40	Orange	
18	6.00	3.90	Red	

050-10-06	Suction Catheter without Vacuum, 6fr, 2.00mm		100
050-10-08	Suction Catheter without Vacuum, 8fr, 2.66mm		100
050-10-10	Suction Catheter without Vacuum, 10fr, 3.33mm		100
050-10-12	Suction Catheter without Vacuum, 12fr, 4.00mm		100
050-10-14	Suction Catheter without Vacuum, 14fr, 4.66mm		100
050-10-16	Suction Catheter without Vacuum, 16fr, 5.33mm		100
050-10-18	Suction Catheter without Vacuum, 18fr, 6.00mm		100
050-20-06	Suction Catheter with Side Vacuum Control, 6fr, 2.00mm		100
050-20-08	Suction Catheter with Side Vacuum Control, 8fr, 2.66mm		100
050-20-10	Suction Catheter with Side Vacuum Control, 10fr, 3.33mm		100
050-20-12	Suction Catheter with Side Vacuum Control, 12fr, 4.00mm		100
050-20-14	Suction Catheter with Side Vacuum Control, 14fr, 4.66mm		100
050-20-16	Suction Catheter with Side Vacuum Control, 16fr, 5.33mm		100
050-20-18	Suction Catheter with Side Vacuum Control, 18fr, 6.00mm		100

# Suction Yankauer

Designed to effectively suction without aspiration of the surrounding tissue, Flexicare have designed a range of suction yankauers with and without suction control providing clinicians with a choice to compliment the full range of suction products available. The Flexicare range of yankauers are made of transparent material with a smooth inner lumen facilitating easy suction and movement through the complete product.

## Visual Indication

The transparent construction of the yankauers allows constant monitoring of suction throughout the system. The smooth inner lumen ensures the level of suction is maintained.

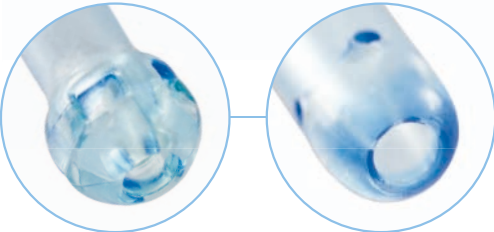


## Sterile

All yankauers are supplied sterile in an easy to open peel pouches.

## Rounded tip

Choice of two tip variations.



Rosebud Tip

Straight Tip

## Continuous Suction

The lateral eyes positioned near the tip allows it to withstand negative pressure while ensuring continuous and easy suction.



## Available with Vacuum finger tip control

The port provided at the distal end of the yankauer handle allows finger tip / thumb management to allow the user further control.

050-35-001	Suction Yankauer with Straight Tip and Vacuum Control	25
050-35-002	Suction Yankauer with Straight Tip	25
050-35-003	Suction Yankauer with Rosebud Tip and Vacuum Control	25
050-35-004	Suction Yankauer with Rosebud Tip	25

## UROLOGY & CONTINENCE CARE

### Catheters, Drainage Bags and Urology Accessories

Flexicare has a full range of Catheters, Leg Bags, Night Drainage Bags and accessories to meet all patients' requirements.

#### Catheters

FlexiCath All Silicone Foley Catheter\_\_\_\_\_124

#### Drainage Bags

Flexicare Leg Bags\_\_\_\_\_126

Discreet Leg Bags\_\_\_\_\_127

Drainable 2L Bags\_\_\_\_\_128

Non-Drainable 2L Bags\_\_\_\_\_129

F2-EZ Once Drainable 2L Bag\_\_\_\_\_130

F2-EZB Once Drainable 2L Bag\_\_\_\_\_131

Urimeter\_\_\_\_\_132

Post Operative Bag\_\_\_\_\_133

#### Accessories

FlexiHang Bag Hanger\_\_\_\_\_134

EZ-Flow Catheter Valve\_\_\_\_\_134

Bag Stand\_\_\_\_\_135

FlexiSleeve Leg Bag Holder/Sleeve\_\_\_\_\_135

Leg Straps\_\_\_\_\_135

Home Packs\_\_\_\_\_136





## FlexiCath Foley Catheter

FlexiCath is a 100% silicone 2-way biocompatible indwelling foley catheter designed to eliminate the risk of allergic reactions and provide maximum long-term patient comfort.

# flexiCath

### Smooth Rounded Tip

Allows for easy insertion and provides maximum patient compliance.

### Large Twin Catheter Eyes

The smooth moulded drainage eyes reduce the risk of snagging, ensuring easier insertion. The large eyes allow quick fluid drainage and reduce risk of blockages.

### Large Inner Lumen

FlexiCath has a large inner lumen with a round, smooth surface reducing the risk of bacterial colonization and encrustation, allowing quick drainage of fluids and any possible clots.

### Radiopaque Line

The integral blue line running the length of the catheter is radiopaque, allowing clinicians to see the position of the catheter under x-ray.

### Smooth Valve Surface

The valve sleeve provides a smooth surface against the patient's skin reducing the risk of irritation.



### Spherical Retention Balloon

The ribbed design of the balloon gives perfect symmetry providing a good position and seal when in situ. The silicone balloon has the ability to contract back to its unfilled streamline shape providing easier removal even after 30 days of use.

### Flexible Shaft

Designed to provide optimum stiffness for easy insertion whilst maintaining true flexibility, giving users freedom of movement without discomfort.

### 100% Silicone

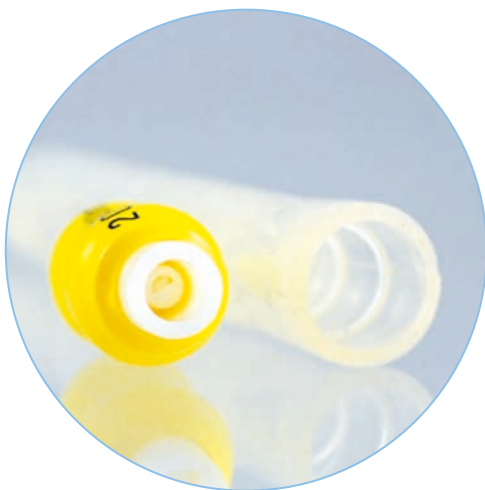
FlexiCath is made of 100% silicone which minimizes bacterial colonization and encrustation whilst in situ, facilitating easier removal.

### Ribbed Outlet Connector

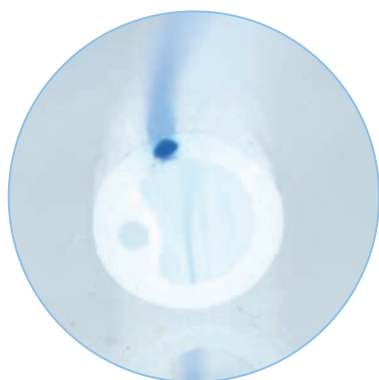
Provides a secure attachment to a catheter valve or leg bag, minimizing the risk of slippage, disconnection or leakage. Clearly marked with sizing information.

### Recessed Inflation Valve

Prevents accidental emptying of the catheter balloon.



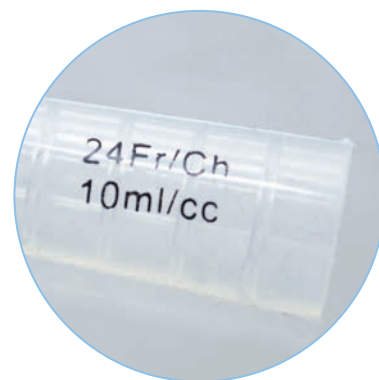
## FlexiCath Foley Catheter



Large inner lumen






Atraumatic tip & large eyes



Ribbed outlet connector




### Paediatric Catheters



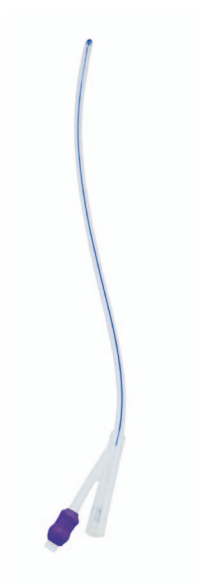
00-410603		6 Ch/Fr	3-5ml	10
00-410803		8 Ch/Fr	3-5ml	10
00-411003		10 Ch/Fr	3-5ml	10















### Female Catheters



00-421205		12 Ch/Fr	10ml	10
00-421405		14 Ch/Fr	10ml	10
00-421605		16 Ch/Fr	10ml	10

### Male Catheters



00-411205		12 Ch/Fr	10ml	10
00-411405		14 Ch/Fr	10ml	10
00-411605		16 Ch/Fr	10ml	10
00-411630		16 Ch/Fr	30ml	10
00-411805		18 Ch/Fr	10ml	10
00-411830		18 Ch/Fr	30ml	10
00-412005		20 Ch/Fr	10ml	10
00-412030		20 Ch/Fr	30ml	10
00-412205		22 Ch/Fr	10ml	10
00-412230		22 Ch/Fr	30ml	10
00-412405		24 Ch/Fr	10ml	10
00-412430		24 Ch/Fr	30ml	10
00-412605		26 Ch/Fr	10ml	10
00-412630		26 Ch/Fr	30ml	10

Please note, product supplied is catheter only.

## Leg Bags - Flexicare Range

Flexicare leg bags are available in 350ml, 500ml and 750ml capacities, meeting different patients' requirements. All three leg bag capacities are available in short or long tube lengths and for those requiring a customised length, Flexicare offer an extra-long adjustable length tube.

### Easy to Operate Leak-Free Taps

The lever taps fitted to Flexicare bags are 100% leak tested and are easy to operate.

### Needle-Free Sample Port

The needle-free sample port eliminates the risk of needle stick injury, whilst ensuring the bag is leak-free.

### Skin-Friendly Fabric Backing

All of our community leg bags have a durable, non-woven fabric backing to reduce skin irritation and perspiration.

### Secure and Comfortable Fit

Anti-slip, latex-free Lycra Velcro straps provide secure, comfortable support and help maintain the inlet tube and non-return valve in position, preventing kinking of the tube or folding of the NRV.



### Universal Secure Overnight Connection

All outlet taps on Flexicare leg bags are fitted with a silicone overnight bag connection to attach securely and reliably to a bedside night drainage bag.

### Range of Tube Lengths

The table below shows the different tube lengths available.

Tube Description	Short Tube	Long Tube	Extra Long Adjustable Tube
Tube Length	7cm / 2 ¾ inches	30cm / 11 ¾ inches	60cm / 23 ¾ inches

### Flexicare Leg Bags - Community packs with fabric backing

00-1352	350ml Leg Bag Short Tube - sterile	10
00-2352	350ml Leg Bag Long Tube - sterile	10
00-1502	500ml Leg Bag Short Tube - sterile	10
00-2502	500ml Leg Bag Long Tube - sterile	10
00-3502	500ml Leg Bag Extra Long Adjustable Tube - sterile	10
00-3501	500ml Leg Bag Extra Long Adjustable Tube - non-sterile	10
00-1752	750ml Leg Bag Short Tube - sterile	10
00-2752	750ml Leg Bag Long Tube - sterile	10

### Flexicare Leg Bags - Hospital packs without fabric backing

00-1503L	500ml Leg Bag Short Tube - sterile	100
00-2503L	500ml Leg Bag Long Tube - sterile	100

Adjustable leg bags are supplied with a standard connector.

## Leg Bags - Discreet Range

Flexicare offer a discreet range of leg bags which are contoured to fit the anatomy better, have a neutral colour and text that is harder to see through clothing. This allows the user to wear a wider range of clothes without compromising on lifestyle choices.

# Discreet

### Neutral Colour

Using neutral colours for the backing and print on the leg bags allows users to wear the bag with more confidence by reducing the possibility of printed text or bright colour backing showing through clothing.

### Contoured Fit

The Discreet range of leg bags are designed to fit better and mould to either the calf or thigh, distributing the weight and volume of the urine evenly to minimise visibility of a leg bag in-situ.

### Easy to Operate Leak Free Taps

The lever taps fitted to Flexicare bags are 100% leak tested and are easy to operate.

### Needle-Free Sample Port

The needle-free sample port eliminates the risk of needle stick injury, whilst ensuring the bag is leak free.



The Discreet range of leg bags are available in 350ml, 500ml and 750ml capacity with short or long tube and for those requiring extra flexibility, Flexicare offers an adjustable length tube in the 500ml capacity.

### Range of Tube Lengths

The table below shows the different tube lengths available.

Tube Description	Short Tube	Long Tube	Extra Long Adjustable Tube
Tube Length	7cm / 2 ¾ inches	30cm / 11 ¾ inches	60cm / 23 ¾ inches

### Discreet Leg Bags - Community packs with fabric backing

00-5352	350ml Discreet Leg Bag Short Tube - sterile	10
00-6352	350ml Discreet Leg Bag Long Tube - sterile	10
00-5502	500ml Discreet Leg Bag Short Tube - sterile	10
00-6502	500ml Discreet Leg Bag Long Tube - sterile	10
00-6504	500ml Discreet Leg Bag Extra Long Adjustable Tube - sterile	10
00-6505	500ml Discreet Leg Bag Extra Long Adjustable Tube - non-sterile	10
00-5752	750ml Discreet Leg Bag Short Tube - sterile	10
00-6752	750ml Leg Bag Long Tube - sterile	10

### Discreet Leg Bags - Hospital packs without fabric backing

00-5503	500ml Discreet Leg Bag Short Tube - sterile	100
00-6503	500ml Discreet Leg Bag Long Tube - sterile	100

Adjustable leg bags are supplied with a standard connector.

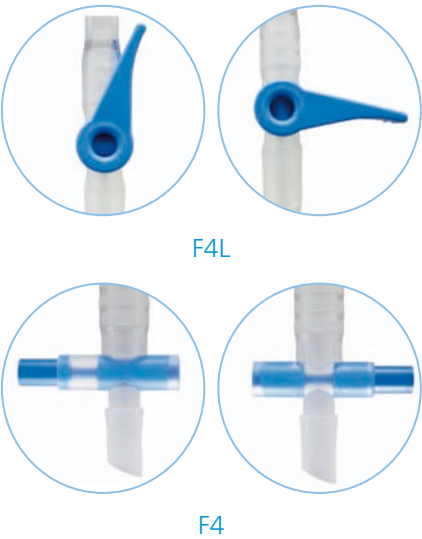
# Drainable 2L Bags

Flexicare drainable urine bags provide a robust and versatile urine drainage solution for both hospital and community environments. All Flexicare drainable 2L bags are fitted with a non-return valve as standard to prevent urine reflux and protect the patient against ascending infection.

## f4 & f4L

### Easy to Operate Leak-Free Taps

Both the lever tap and T-tap fitted to Flexicare F4 bags are 100% leak tested and are easy to operate. The lever tap requires a lower force to open and close the tap and this design is often preferred by the elderly or patients with impaired dexterity.



### Free and Rapid Flow

The wide bore drainage tube allows unimpaired flow of urine into the bag, optimising drainage and providing observation of urine flow. The tube is both firm and flexible affording comfort to the user.

### Needle-Free Sample Port

The needle-free sample port eliminates the risk of needle stick injury, whilst ensuring the bag is leak free.



### Overnight Drainage Bags - Community Packs

00-1200	F4 Community Pack - 2L drainable sterile bag with inlet connector, needle-free sampling port and T-tap	10
00-1201	F4L Community Pack - 2L drainable sterile bag with inlet connector, needle-free sampling port and lever tap	10

### Overnight Drainage Bags - Hospital Packs

00-1204	F4 Hospital Pack - 2L drainable sterile bag with inlet connector, needle-free sampling port and T-tap	100
00-1204L	F4 Hospital Pack - 2L drainable sterile bag with inlet connector, needle-free sampling port and lever tap	100
00-2206	F3 Non Sterile Hospital Pack - non-sterile bag with non-return valve and T-tap	100

## Non-Drainable 2L Bags

Flexicare non drainable 2L bags provide a clean and safe method of urine drainage for both hospital and home environments. The Flexicare F2 bag is a high quality collection bag that is simple and easy to use, assuring confidence to clinicians and comfort for patients.

*ff*<sup>2</sup>



### Easy to use

The Flexicare F2 bag has a simple and easy-to-use tear mark which can be used to open and drain the bag when needed. After use, the bag can be disposed of with household waste making the F2 an ideal bag for use in both hospital and community settings.

### Safe and secure drainage

All Flexicare urine drainage bags are fitted with a non-return valve (NRV) as standard. Flexicare NRVs are designed to allow low pressure drainage in one direction while preventing all flow in the opposite direction. This balance is critical to make sure that there is a free flow of urine into the bag while protecting the patient against ascending infection.

### Secure connection to catheter or leg bag

The stepped connector is easily inserted into any catheter or sheath and provides a secure connection that will withstand the most vigorous user activity.



### Overnight Drainage Bags - Community Packs

00-2202c	F2 Community Pack - non-sterile bag, non-drainable with non-return valve and tear to open	10
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### Overnight Drainage Bags - Hospital Packs

00-2201	F2 Non-Sterile Hospital Pack - non-sterile bag, non-drainable, non-return valve and tear to open	250
00-2202	F2 Sterile Hospital Pack - sterile bag, non-drainable, non-return valve and tear to open	100



## Once Drainable 2L Bags

F2-EZ is an innovative 2L drainage bag designed to be opened quickly and easily while maintaining controlled drainage of fluids. The twist-snap tap is located at the top of the bag thus eliminating the possibility of splash, spray and cross contamination associated with tear bags. The bag is designed for single use and, once the twist-snap tap has been broken and the bag emptied, it can be easily disposed of.

*ff*2-EZ



**F2-EZ Twist-Snap Tap**  
Innovative easy-to-open angled connector with wide bore for rapid drainage.

**Non-Return Valve**  
Eliminates reflux and maintains directional flow of fluids.

**Opposing Diagonal Eyelet**  
The positioning of the eyelet allows the bag to be hung for emptying.

**Stepped Connector**  
This provides a secure connection to all bags and catheters.

00-2203C	F2-EZ Community Pack - non-sterile bag, once-drainable with non-return valve and twist-snap tap	10
00-2203	F2-EZ Hospital Pack- non-sterile bag, once-drainable with non-return valve and twist-snap tap	100

Once Drainable 2L Bags

F2-EZB features the same specification as F2-EZ but with the twist-snap tap at the bottom of the bag. The bag is designed for single use and, once the twist-snap tap has been broken and the bag emptied, it can be easily disposed of.

f2-EZB

**Non-Return Valve**  
Eliminates reflux and maintains directional flow of fluids.

**Bag Stand**  
F2-EZB is pictured with the Flexicare Bag Stand. For more information see page 139.

**Stepped Connector**  
Provides a secure connection to all bags and catheters.

**F2-EZB Twist-Snap Tap**  
Innovative easy-to-open connector with wide bore for rapid drainage.

**Twist-Snap Tap**  
Held in the upright position the twist-snap tap is twisted to break the seal.

**Easily Drainable**  
After discarding the tip, the fluid can be easily drained via the outlet.

00-2208C	F2-EZB Community Pack - non-sterile bag, once-drainable with non-return valve and bottom-located twist-snap tap	10
00-2208	F2-EZB Hospital Pack- non-sterile bag, once-drainable with non-return valve and bottom-located twist-snap tap	100

# Urimeter

Urine meters are primarily used with post operative patients or those critically ill, where precise monitoring of urine output is necessary. Flexicare have developed a sterile closed collection Urimeter with an integral measuring chamber directly above the in-line collection bag.

## Star Lumen Tubing

The star lumen tubing ensures unimpeded flow of urine even if the tube becomes kinked.

## Secure Fastening

The integral hangers and straps ensure the Flexicare Urimeter is securely attached to any bed frame.

## Vertical Drainage

Vertical drainage ensures complete emptying of the measuring chamber

## Safe and Secure Drainage

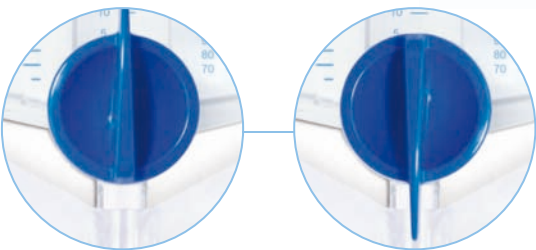
The unique design and manufacture of our non-return valves (NRV) allows low pressure drainage without compromising its anti-reflux property.

## Hydrophobic Filters

The hydrophobic filter allows for the air and any gas build up in the bag to escape without allowing proteins or fluids to pass through.

## Enclosed Tap Protector

The lever tap can be housed in the blue tap holder when not in use to prevent the tap touching the floor or being accidentally opened.



## Easy Emptying

The 180° release tap enables the clinician to empty the measuring chamber quickly and without the need to invert the chamber, reducing the risk of ascending infection.

00-1225	Flexicare Urimeter with 100cm Tubing	20
00-1227	Flexicare Urimeter with 150cm Tubing	20

## Post Operative Bag

Primarily used with patients who have undergone an operation and are fitted with a urinary catheter. The Flexicare Post Operative Bag is designed for patients with a weakened immune system who require a sterile drainage bag with maximum protection against the risk of ascending infection.

### Integral Bag Hanger

The integral bag hanger can fit securely to any bed or stand. The inlet tube is also maintained in its primary position to allow for direct flow into the drip chamber.



### Drip Chamber

The drip chamber is fitted with a non-return valve and prevents contact between the urine inside the bag and the tube, which eliminates the risk of ascending infection.

### Hydrophobic Filter

The hydrophobic filter allows for any air or gas build up in the bag to escape without allowing proteins or fluids to pass through. The function of the hydrophobic filter also assists in proper filling of the bag without pressure build up.

### Non-Return Valve

The bag is fitted with a second NRV preventing the contents of the bag returning to the drip chamber, eliminating reflux and provides directional flow of fluids.



### Enclosed Tap Protector

The lever tap can be placed in a protective tap holder which keeps the outlet from possible cross contamination from the floor whilst also protecting against accidental opening.

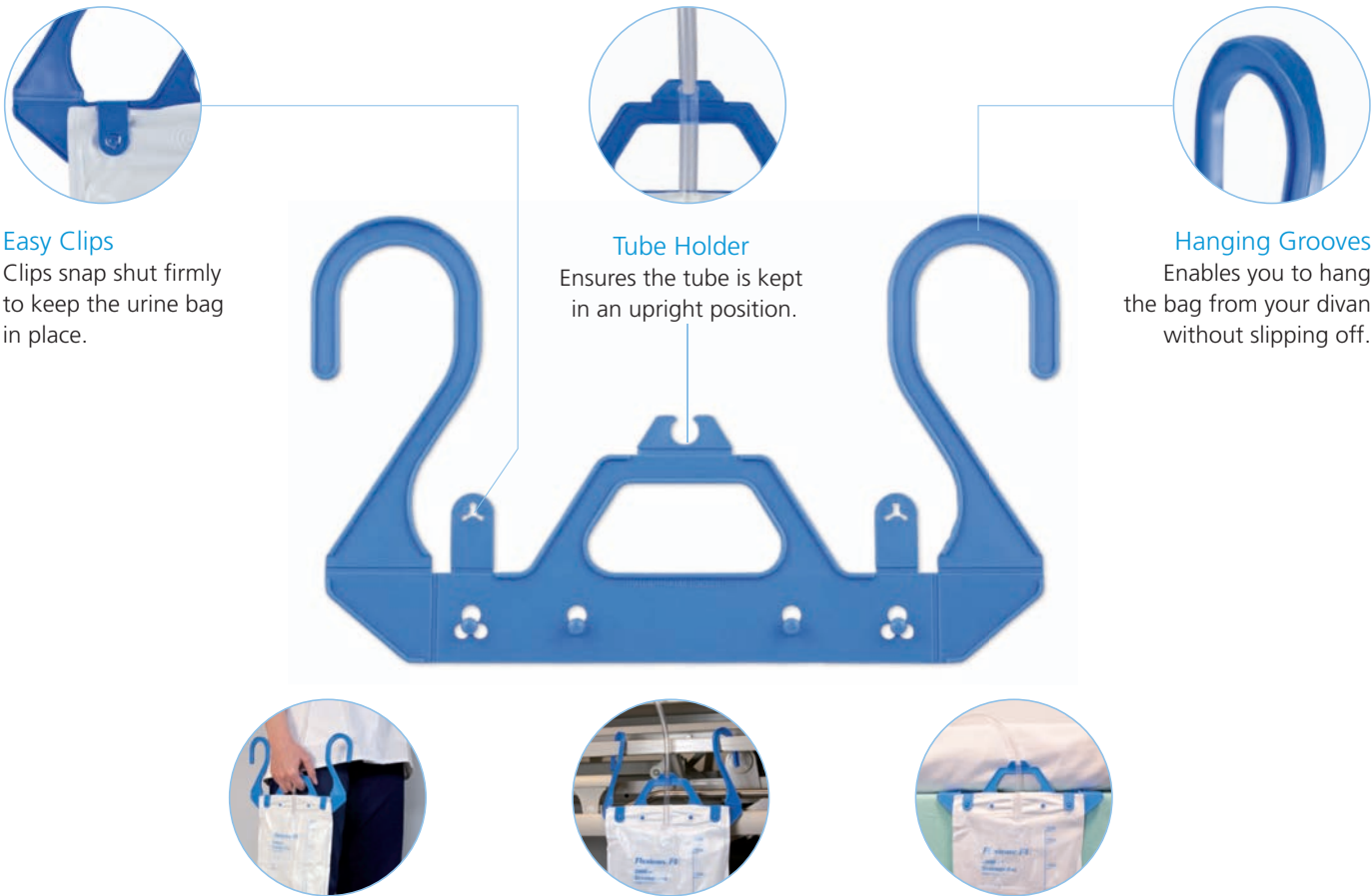


The bag is connected to the catheter via a needle free sample port connector which provides a secure fit to any foley catheter. The wide bore tubing allows for quick and easy urine drainage, while remaining flexible and kink resistant.

00-1208	2L Post Operative Bag - Sterile	20
00-1209	4L Irrigation Bag - Sterile	20

# flexiHang

The FlexiHang bag hanger is a uniquely designed universal 2 litre urine bag hanger for use on beds fitted with or without side bars. FlexiHang can also be secured between the mattress and bed frame on a divan bed. The ridges incorporated into the hook section of the hanger will provide a positive grip keeping the hanger and bag in position. FlexiHang holds the urine bag firmly in place with two snap-fit locks and secures the outlet tube in a vertical position to ensure good flow to the bag.



00-0012	FlexiHang Bag Hanger	10
00-0014	FlexiHang Bag Hanger	100

# EZ-flow

The Flexicare EZ-Flow is a discreet lightweight catheter valve designed to offer patients flexibility of choice in urine drainage management.

**100% tested** - All EZ-Flow catheter valves are 100% tested to guarantee leak-free valves.

**Patient Comfort** - The outlet sleeve of the catheter valve is made of soft PVC that will not cause pressure marks or discomfort for the patient.

**Secure Fitting** - the ridged connector ensures a secure fit with the catheter.



00-0060	EZ-Flow Catheter Valve	5
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## Accessories

### Bag Stand

The Flexicare Bag Stand is tough, durable and designed to hold any 2L bag. The metal stand is plastic coated making it easy to clean and ensuring that there are no sharp edges.



Easy Clean Coating



Stable Base



00-0022

Bedside Bag Stand

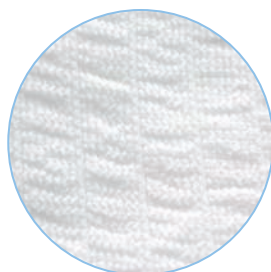
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### flexiSleeve

FlexiSleeve is a knitted leg bag holder to replace leg straps. FlexiSleeve offers more comfort to the bag wearer by distributing the weight of the bag evenly around the leg or thigh. This helps to reduce the risk of pressure sores occurring and dampen the noise of the fluid in the bag.



Increased Comfort



Knitted Weave



00-0035

Small size leg bag holder

3

00-0036

Medium size leg bag holder

3

00-0037

Large size leg bag holder

3

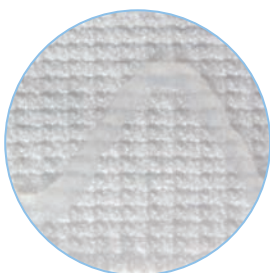
00-0038

Extra-large size leg bag holder

3

### Leg Straps

Flexicare leg straps are made of Lycra which keeps its elasticity over the strap's lifetime. The leg straps feature an anti-slip silicone wave which grips the leg and ensures a secure and comfortable fit.



Anti-Slip Silicone Wave



Secure Fastening



00-0032C

Lycra anti-slip leg straps

10

00-0032

Lycra anti-slip leg straps

100



## Home Packs

Flexicare offers home packs to patients leaving hospital and returning home. Several different home packs are available to suit different patient requirements, ensuring that patients have all the items they need during their first week away from hospital.



## Providing ongoing care in the community

All home packs include a user booklet, written by a Continence Advisor, designed specifically for patients to ensure they use the products correctly as well as emphasising the importance of hygiene. The booklet also answers the most frequently asked questions, thus helping the patient in adapting to using continence products.

### Accessories

Along with a selection of urine bags, Flexicare home packs also contain the following accessories:

1 x Pair of anti-slip latex-free lycra velcro leg straps, 1 x FlexiHang 2 litre bag hanger, 1 x User booklet and 1 x Prescription card, with details of all products available and prescription order numbers

### Non Drainable Night Bag Home Packs

00-0042	4 x F2 and 1 x 500ml short tube leg bag - continence care home pack	1
00-0047	2 x F2S and 1 x 500ml short tube leg bag - continence care home pack	1
00-0048	2 x F2S and 1 x 500ml long tube leg bag - continence care home pack	1

### Drainable Night Bag Home Packs

00-0045	2 x F4L and 1 x 500ml short tube leg bag - continence care home pack	1
00-0046	2 x F4L and 1 x 500ml long tube leg bag - continence care home pack	1

### Combination Home Packs

00-0040	1 x F4, 1 x F2 and 1 x 500ml short tube leg bag - continence care home pack	1
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# OSTOMY

## Coloset Closed and Drainable Bags and Flanges

Flexicare offer closed and drainable bags, both are available in either one or two piece, with a choice of skin friendly backing.

Coloset Features\_\_\_\_\_ 138

### Coloset One Piece Range

Coloset Closed - One Piece Bag\_\_\_\_\_ 139

Coloset Drainable - One Piece Bag\_\_\_\_\_ 139

### Ostomy Two Piece Range

Flanges\_\_\_\_\_ 141

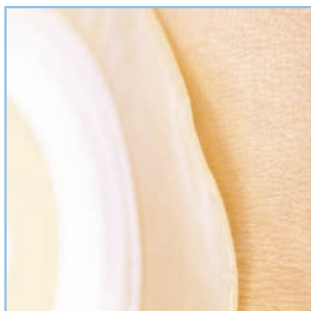
Coloset Closed - Two Piece Bag\_\_\_\_\_ 141

Coloset Drainable - Two Piece Bag\_\_\_\_\_ 141



## Ostomy Care

Flexicare have developed a wide range of ostomy care products to meet the different needs of patients for both colostomy or ileostomy, providing choice and flexibility that allows patients to maintain their normal social lifestyles.



### Skin Protection

- The Hydrocolloid flange is easy to adhere to the skin and also easy to remove without any adhesive residual being left on the skin.
- The hydrocolloid layer has been formulated to prevent skin damage and encourage healing in the peristomal skin, directing excess water and moisture away from the area to prevent the risk of skin whitening and softening.



### Filtration

- The integral charcoal filter absorbs and neutralises naturally occurring odours, allowing gas to be expelled from the bag without notice to the user or others.
- Air can freely move in both directions to prevent the bag from ballooning but also aids in allowing the bag to fill correctly from the stoma.



### Security

- Snap Fit
- Designed to provide a tight seal, the rounded diamond shape creates a uniform adhesion to the abdomen, reducing the risk of leakage and provides maximum comfort.



### Ostomy Accessory Range

- Ostomy Care Paste  
Creates a secure seal to make your Ostomy bag sit more securely to the stoma.
- Ostomy Belt  
Provides extra security and comfort, holding your Ostomy closer to the body.



### Comfort and Choice

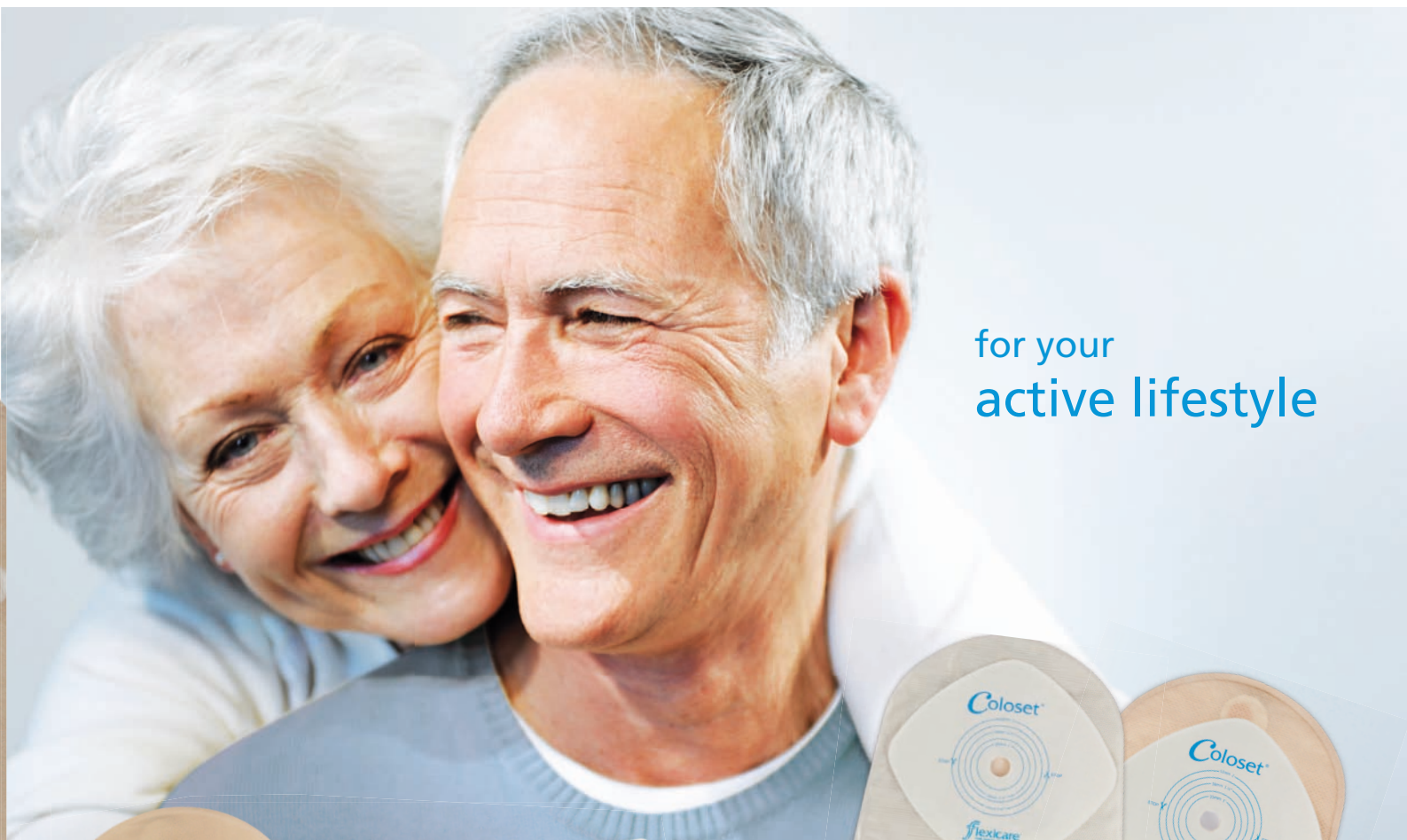
- Non Woven Backing  
Skin-friendly fabric reduces perspiration and skin irritation. Strong and durable whilst also soft against the skin.
- Comfort Net Backing  
Lightweight and breathable, comfort net is gentle on the skin and moves with the body to prevent irritation.





## Coloset Closed and Drainable - One Piece Range

Coloset Closed and Drainable ranges are lightweight one piece bags that are designed to be comfortable and ultra-discreet with a slim line profile.



for your  
active lifestyle



### Coloset Closed Range

	Clear Film	Opaque Film
Coloset Closed One Piece bag with comfort net backing & filter	00-911-110	00-912-110
Coloset Closed One Piece bag with non woven backing & filter	00-911-210	00-912-210

Supplied in packs of 30

### Coloset Drainable Range

	Clear Film	Opaque Film
Coloset Drainable Two Piece bag with comfort net backing & filter	00-931-110	00-932-110
Coloset Drainable Two Piece bag with non woven backing & filter	00-931-210	00-932-210

Supplied in packs of 30

## Coloset Closed and Drainable - Two Piece Range



### Lock-in System

Two piece closed colostomy bag which has a lock-in system with three easy-grip tabs making bag changes easy at any angle. The bags are designed to be used with Flexicare's range of skin friendly hydrocolloid flanges.

### Slim Line Profile

The slim line design allows for the bag to be worn with total discretion whilst maintaining maximum collection.

### Soft Edges

The rounded bag shape is free of any sharp angles which could cause discomfort, allowing users to move freely without the risk of snagging on clothing or on the skin.



### Easy Emptying

The wide emptying port helps to facilitate quick discharge of the contents when required, without fuss.

### Security

Reassuring positive locking system provides confidence in having a leak free seal.

### Clip

Our safe and secure fastener provides piece of mind.



### Quick and easy application

Printed with a sizing indicator and cutting guide markings. The free measuring card should be used to decide on the size to cut for a close and comfortable fit around the stoma.

### Secure and comfortable bond

Our flanges have a large, diamond-shaped wafer which ensures a safe and secure fit providing peace of mind for the user. The soft and flexible material conforms to the shape of the body enabling it to withstand even the most vigorous activity.

## Coloset Closed and Drainable - Two Piece Range

### Coloset<sup>®</sup> *closed*

Comfort net backing	32mm	38mm	45mm	57mm	70mm	75mm
Coloset Closed Two Piece with clear film, comfort net backing and filter	00-921-132	00-921-138	00-921-145	00-921-157	00-921-170	00-921-175
Coloset Closed Two Piece with opaque film, comfort net backing and filter	00-922-132	00-922-138	00-922-145	00-922-157	00-922-170	00-922-175

Non Woven Backing	32mm	38mm	45mm	57mm	70mm	75mm
Coloset Closed Two Piece with clear film, non woven backing and filter	00-921-232	00-921-238	00-921-245	00-921-257	00-921-270	00-921-275
Coloset Closed Two Piece with opaque film, non woven backing and filter	00-922-232	00-922-238	00-922-245	00-922-257	00-922-270	00-922-275

Supplied in packs of 30

### Coloset<sup>®</sup> *Drainable*

Comfort net backing	32mm	38mm	45mm	57mm	70mm	75mm
Coloset Drainable Two Piece with clear film, comfort net backing and filter	00-931-132	00-931-138	00-931-145	00-931-157	00-931-170	00-931-175
Coloset Drainable Two Piece with opaque film, comfort net backing and filter	00-932-132	00-932-138	00-932-145	00-932-157	00-932-170	00-932-175

Non Woven Backing	32mm	38mm	45mm	57mm	70mm	75mm
Coloset Drainable Two Piece with clear film, non woven backing and filter	00-931-232	00-931-238	00-931-245	00-931-257	00-931-270	00-931-275
Coloset Drainable Two Piece with opaque film, non woven backing and filter	00-932-232	00-932-238	00-932-245	00-932-257	00-932-270	00-932-275

Supplied in packs of 30

### Flange Range

Flanges are available in various sizes to help the patient to choose the closet fitting size ostomy flange. The range has been developed so that they are completely compatible with either Coloset closed or drainable ranges.

Supplied in packs of 5

Ostomy Flange	32mm	38mm	45mm	57mm	70mm	75mm
Ostomy Flange	00-920-032	00-920-038	00-920-045	00-920-057	00-920-070	00-920-075

### Accessories

00-900-010	Stoma Care Belt with adjustable strap	1
00-900-010LX	Large Stoma Care Belt with adjustable strap	1
00-900-020	Stoma Care Paste 60g	1

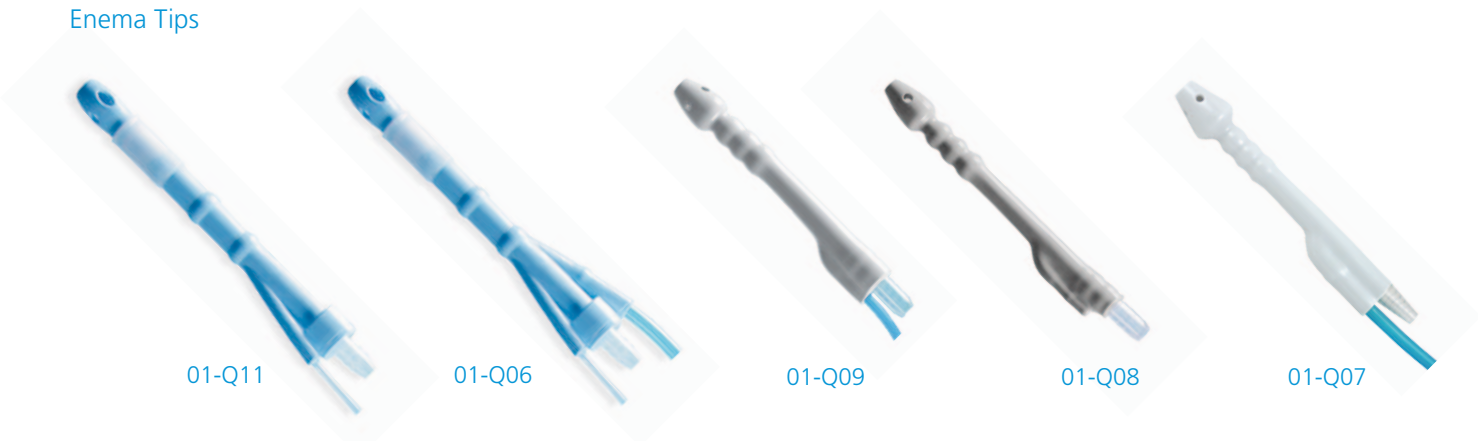


## Epiflex - Enema Range

Epiflex barium enema range includes tips, bags and accessories providing clinicians with maximum choice. There is a wide range of enema tips with a choice of cuffed or uncuffed depending on the procedure required.



### Enema Tips



01-Q11	Cuffed Enema Tip With Air Line and Non-Return Valve	10
01-Q06	Cuffed Enema Tip	10
01-Q09	Standard Enema Tip With Air Line and Non-Return Valve	10
01-Q08	Standard Enema Tip	10
01-Q07	Extra Large Enema Tip With Air Line and Non-Return Valve	10

### Enema Bag



01-Q12	Enema Bag	10
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### Enema Accessories



01-Q15



01-Q14

01-Q15	Single Shot Cuff Indicator	10
01-Q14	Blue Air Puffer	10

Our commitment to is to provide comprehensive advice, dedicated support and a thorough understanding of our product portfolio.

dedicated to  
**supporting**  
your every need

#### Our Team

The strength of any company is built on the people it employs, and Flexicare has a dedicated team who have years of combined experience to ensure that we fulfill our promise of delivering Quality, Service and Value.

#### Online Support

Our new website has been designed so that it works in harmony with our catalogue and is updated regularly to provide up to date information on our product range and new developments, providing you with the most user friendly experience, ensuring that you can find what you want quickly and easily. We are also developing new specialist content for our websites such as training videos and downloadable product specific literature.

[www.flexicare.com](http://www.flexicare.com) [www.halllock.com](http://www.halllock.com)

#### Customer Care

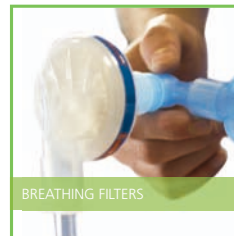
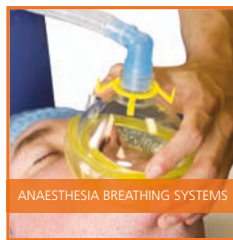
We want to make the whole process for the customers as easy as possible. Dealing with one person who will be able to discuss pricing, product enquiries or logistics, gives customers peace of mind.

#### Quality Assurance

Flexicare are able to provide a complete product from start to finish, with quality assurance checks throughout the process, providing confidence for our end users.



Not all products are available in all countries at time of going to print. Please call our customer services department for more information.



Flexicare Medical Limited. Cynon Valley Business Park, Mountain Ash, Mid Glamorgan, CF45 4ER, UK.

☎ +44 (0)1443 474647    📞 +44 (0)1443 474222    @ enquiries@flexicare.com    🌐 www.flexicare.com

#### Flexicare USA

Flexicare Inc  
15281 Barranca, Unit D  
Irvine, CA 92618  
☎ 1 800 985 3314 (Toll Free)  
☎ 949-916 3333  
☎ 949-916 3303  
@ inquiries@flexicare.com

#### Flexicare Middle East

Flexicare Middle East Amman  
Um Uthina Shatt Al Arab Street  
Nakho Business Center  
2nd Floor - Office No.5  
☎ +962 6554 8944  
☎ +962 6554 8945  
@ enquiries@flexicare.com

#### Flexicare India

Flexicare Medical India Pvt.Ltd  
North Phase, Developed Plot No.10A,  
T.V.K. Industrial Estate,  
Ekkattuthangal,  
Chennai-600 097  
☎ +91 44 4554 0220  
@ enquiries@flexicare.com

#### Flexicare China

Flexicare Medical China Limited  
No. B-15, Xicheng Industrial  
Zone I, Hengli Town,  
Dongguan City,  
Guangdong Province  
China 523460  
@ enquiries@flexicareasia.com